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PLASMA DISPLAY SYSTEM

**PRO-1120HD
PRO-920HD**

ELITE



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www.pioneerelectronics.com

Operating Instructions

IMPORTANT



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

- 11) Only use attachments/accessories specified by the manufacturer.

- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.

- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Note to CATV system installer.

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground—shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

WARNING: THE APPARATUS IS NOT WATER-PROOFS, TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE AND DO NOT PUT ANY WATER SOURCE NEAR THIS APPARATUS, SUCH AS VASE, FLOWER POT, COSMETICS CONTAINER AND MEDICINE BOTTLE ETC.

WARNING: Handling the cord on this product or cords associated with accessories sold with the product will expose you to lead, a chemical known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm. ***Wash hands after handling.***

NOTE: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

[For Canadian model]

This Class B digital apparatus complies with Canadian ICES-003.

CAUTION:

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

FEDERAL COMMUNICATIONS COMMISSION DECLARATION OF CONFORMITY

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Product Name: Plasma Display System
(Plasma Display)
(Media Receiver)

Model Number:	PRO-1120HD	PRO-920HD
	(PRO-505PU)	(PRO-435PU)
	(PRO-R05U)	(PRO-R05U)

Product Category: Class B Personal Computers & Peripherals

Responsible Party Name: PIONEER ELECTRONICS (USA), INC., Customer Support Div.

Address: P.O. BOX 1760, LONG BEACH, CA., 90801-1760 U.S.A.

Phone: (800) 421-1625

For Business Customer URL

<http://www.PioneerUSA.com>

IMPORTANT NOTICE: The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

WARNING: Be sure to plug this equipment into a grounding-type AC outlet.

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However the method of connecting and operating the unit is the same.

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In order to obtain maximum enjoyment from this Pioneer PureVision PRO-1120HD/PRO-920HD Plasma Display System, please first read this information carefully.

With the Pioneer PureVision PRO-1120HD/PRO-920HD, you can be assured of a high quality Plasma Display System with long-life and high reliability. To achieve images of exceptional quality, this Pioneer Plasma Display System incorporates state-of-the-art design and construction, as well as very precise and highly advanced technology.

The Pioneer PureVision PRO-1120HD/PRO-920HD incorporates the latest in color filter technology – 1st Surface Pure Color Filter. This improves the color / picture reproduction of these models as compared to previous models. It also eliminates the need for a physical glass panel to be placed in front of the plasma panel, which furthers Pioneer's continued goal of reducing environmental waste in consumer electronics, now during the manufacturing process and in the future during the recycling process.

Over the course of its lifetime, the luminosity of the Pioneer PRO-1120HD/PRO-920HD Plasma Display System will diminish very slowly, such as with all phosphor-based screens (for example, a traditional tube-type television). To enjoy beautiful and bright images on your Pioneer Plasma Display System for many years to come, please carefully read and follow the usage guidelines below.

Usage guidelines

All phosphor-based screens (including conventional tube-type televisions) can be affected by displaying static images for a prolonged period. Plasma Display Systems are no exception to this rule. After-image and permanent effects on the screen can be avoided by taking some basic precautions. By following the recommendations listed below, you can ensure longer and satisfactory results from your plasma:

- Whenever possible, avoid frequently displaying the same image or virtually still moving pictures (e.g. closed-captioned images or video game images which have static portions).
- Avoid viewing the On Screen Display for extended periods, from a DVD player, VCR, and all other components.
- Do not leave the same picture freeze-framed or paused continuously over a long period of time, when using the still picture mode from a TV, VCR, DVD player or any other component.
- Images which have both very bright areas and very dark areas side by side should not be displayed for a prolonged period of time.
- When playing a game, the "GAME" mode setting within "AV Selection" is strongly recommended. However, please limit its use to less than 2 hours at a time.
- After playing a game, or displaying a PC image or any still image, it is best to view a normal moving picture in the "WIDE" or "FULL" screen setting for over 3 times longer than the previous still/moving image.
- After using the Plasma Display System, always switch the display to "STANDBY" mode.

Installation guidelines

The Pioneer PureVision PRO-1120HD/PRO-920HD Plasma Display System incorporates a very thin design. To ensure safety, please take the proper measures to mount or install the Plasma Display, in order to prevent the unit from tipping over in the event of vibration or accidental movement.

This product should be installed by using only parts and accessories designed by PIONEER. Use of accessories other than the PIONEER stand or installation bracket may result in instability, and could cause injury. For custom installation, please consult the dealer where the unit was purchased. To ensure correct installation, experienced and qualified experts must install the unit. PIONEER will not be held responsible for accident or damage caused by the use of parts and accessories manufactured by other companies.

To avoid malfunction and overheating when installing, make sure that the vents on the main unit are not blocked. To ensure proper heat emission:

- Distance the unit slightly from other equipment, walls, etc. For the minimum space required around the unit, see pages 15 to 16.
- Do not fit the unit inside narrow spaces where ventilation is poor.
- Do not cover with a cloth, etc.
- Clean the vents on the sides and rear of the unit to remove dust build-up by using a vacuum cleaner set to its lowest suction setting.
- Do not place the product on a carpet or blanket.
- Do not leave the product tilted over except the case of vertical installation of the Media Receiver.
- Do not reverse the product.

Using the unit without proper ventilation may cause the internal temperature to rise, and could result in possible malfunction. When the surrounding or internal temperature exceeds a certain degree, the display will automatically power off in order to cool the internal electronics and prevent a hazardous occurrence.

Malfunction can be caused by many factors: inappropriate installation site, improper assembly/installation/mounting, improper operation of or modifications made to this product. However, PIONEER cannot be held responsible for accidents or malfunction caused by the above.

NOTE

The following are typical effects and characteristics of a phosphor-based matrix display and as such, are not covered by the manufacturer's limited warranties:

- Permanent residual images upon the phosphors of the panel.
- The existence of a minute number of inactive light cells.
- Panel generated sounds, examples: Fan motor noise, and electrical circuit humming / glass panel buzzing

⚠ CAUTION

Panel sticking and after-image lag

- Displaying the same images such as still images for a long time may cause after-image lagging. This may occur in the following two cases.

1. After-image lagging due to remaining electric load

When image patterns with very high peak luminance are displayed more than 1 minute, after-image lagging may occur due to the remaining electric load. The after-images remaining on the screen will disappear when moving images are displayed. The time for the after-images to disappear depends on the luminance of the still images and the time they had been displayed.

2. After-image (lag image) due to burning

Avoid displaying the same image on the Plasma Display continuously over a long period of time. If the same image is displayed continuously for several hours, or for shorter periods of time over several days, a permanent after-image may remain on the screen due to burning of the fluorescent materials. Such images may become less noticeable if moving images are later displayed, but they will not disappear completely.

- The Energy save function can be set to help prevent damage from screen burning (see page 44).

About operations through i.LINK

PIONEER shall not always assure normal video/audio recording or playback when a D-VHS is operated through i.LINK.

⚠ CAUTION

DO NOT PLACE THIS PRODUCT ON AN UNSTABLE CART, STAND, TRIPOD, BRACKET, OR TABLE. THE PRODUCT MAY FALL, CAUSING SERIOUS PERSONAL INJURY AND SERIOUS DAMAGE TO THE PRODUCT. USE ONLY WITH A CART, STAND, TRIPOD, BRACKET, OR TABLE RECOMMENDED BY THE MANUFACTURER, OR SOLD WITH THE PRODUCT. FOLLOW THE MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING THE PRODUCT AND USE MOUNTING ACCESSORIES RECOMMENDED BY THE MANUFACTURER.

A PRODUCT AND CART COMBINATION SHOULD BE MOVED WITH THE CARE. QUICK STOPS, EXCESSIVE FORCE, AND UNEVEN SURFACES MAY CAUSE THE PRODUCT AND CART COMBINATION TO OVERTURN.



Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your product, please read the following precautions carefully before using the product.

1. Read instructions—All operating instructions must be read and understood before the product is operated.
2. Keep this manual in a safe place—These safety and operating instructions must be kept in a safe place for future reference.
3. Observe warnings—All warnings on the product and in the instructions must be observed closely.
4. Follow instructions—All operating instructions must be followed.
5. Cleaning—Unplug the power cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
6. Attachments—Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
7. Water and moisture—Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.
8. Stand—Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.
9. When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.



10. Ventilation—The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
11. Power source—This product must operate on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company.
12. Power cord protection—The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.

13. The plasma Display used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the plasma Display breaks.
14. Overloading—Do not overload AC outlets or extension cords. Overloading can cause fire or electric shock.
15. Entering of objects and liquids—Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.
16. Servicing—Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
17. Repair—if any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.
 - a. When the power cord or plug is damaged.
 - b. When a liquid was spilled on the product or when objects have fallen into the product.
 - c. When the product has been exposed to rain or water.
 - d. When the product does not operate properly as described in the operating instructions.
 Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
- e. When the product has been dropped or damaged.
- f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.
18. Replacement parts—in case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.
19. Safety checks—Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.
20. Wall or ceiling mounting—When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.
21. Heat sources—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).
22. Unplug the power cord from the AC outlet before installing the speakers.
23. Never expose the screen of the Plasma Display to a strong impact, for example, by hitting it. The screen may be broken, resulting in fire or personal injury.
24. Do not expose the Plasma Display to direct sunlight for a long period of time. The optical characteristics of the front protection panel changes, resulting in discoloration or warp.
25. The Plasma Display weighs about 32.8 kg (72.3 lbs.) for the PRO-505PU and about 26.8 kg (59.1 lbs.) for the PRO-435PU. Because it has small depth and is unstable, unpack, carry, and install the product with one more person at least and use the handles.

Safety Precautions

Installation Precautions

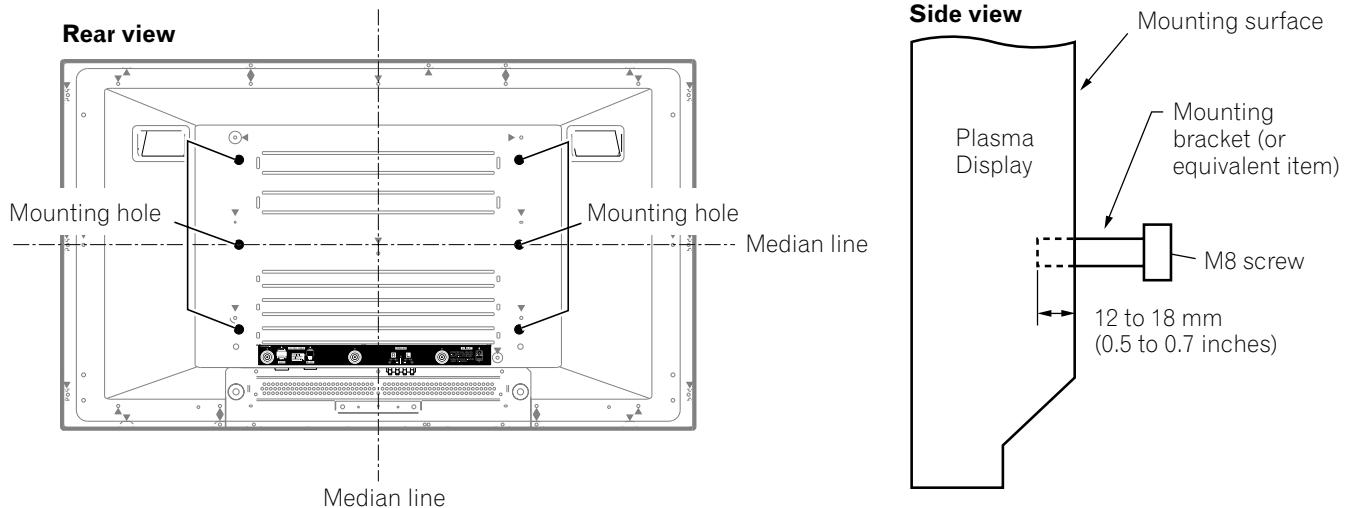
Observe the following precautions when installing with any items such as the optional stand.

When using the optional stand, brackets, or equivalent items

- Ask your dealer to perform the installation.
- Be sure to use the supplied bolts.
- For details, see the instruction manual that comes with the optional stand (or equivalent items).

When using other items

- Consult your dealer.
- The following six mounting holes can be used for the installation:



CAUTION

- Be sure to use four or more mounting holes symmetrical to the vertical and horizontal median lines.
- Use M8 screws, which go 12 to 18 mm (0.5 to 0.7 inches) in depth from the mounting surface of the Plasma Display. See the side view above.
- Be careful not to block the ventilation opening at the rear of the Plasma Display.
- Be sure to install the Plasma Display on a flat surface because it contains glass.
- The screw holes other than the above are to be used only for the specified products. Never use them for mounting non-specified products.
- Do not mount or remove the Plasma Display to or from the stand, with speakers attached.

NOTE

- It is strongly recommended to use the optional PIONEER mounting products.
- PIONEER shall not be liable for any personal injury or product damage that results from the use of mounting items other than the optional PIONEER products.

CAUTION

PIONEER bears no responsibility for any damages arising from incorrect use of the product by you or other people, malfunctions when in use, other product related problems, and use of the product except in cases where the company must be liable.

Plasma Display protection function

When still images (such as photos and computer images) stay on the screen for an extended period of time, the screen will be slightly dimmed. This is because the protection function of the Plasma Display automatically adjusts the brightness to protect the screen when detecting still images; so this does not designate malfunction. The screen is dimmed when a still image is detected for about three minutes.

Infrared rays

The Plasma Display releases infrared rays because of its characteristics. Depending on how the Plasma Display is in use, the remote controls of nearby equipment may be adversely affected or wireless headphones using infrared rays are interfered by noise. If this is the case, place that equipment at a location where its remote control sensor is not affected.

Radio interference

While this product meets the required specifications, it emits a small amount of noise. If you place such equipment as an AM radio, personal computer, and VCR close to this product, that equipment may be interfered. If this happens, place that equipment far enough from this product.

Fan motor noise

When ambient temperature of the Media Receiver becomes high, the rotation speed of the cooling fan motor increases. This may make you feel that the fan motor is noisy at such an occasion.

The fan motor keeps running until the power cord of the Media Receiver is removed from a wall outlet.

Do not attach such items as labels and tape to the product.

- This may result in the discoloration or scratch of the cabinet.

When not using the product for a long period of time

- If you do not use the product for a long period of time, the functions of the product may be adversely affected. Switch on and run the product occasionally.

Condensation

- Condensation may take place on the surface or inside of the product when the product is rapidly moved from a cold place to a warm place or just after a heater is switched on in winter morning, for example. When condensation takes place, do not switch on the product and wait until condensation disappears. Using the product with condensation may result in malfunction.

Cleaning the screen

- When cleaning the screen of this product, gently wipe it with a soft dry cloth; the supplied cleaning cloth or other similar cloths (e.g., cotton and flannel). If you use a hard cloth or rub the screen hard, the surface of the screen will be scratched.
- If you clean the surface of the screen with a wet cloth, water droplets on the surface may enter into the product, resulting in malfunction.

Cleaning the cabinet

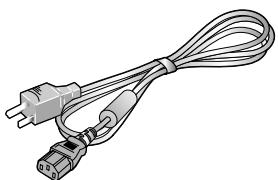
- When cleaning the cabinet of this product, gently wipe it with a soft dry cloth; the supplied cleaning cloth or other similar cloths (e.g., cotton and flannel). If you use a hard cloth or rub the cabinet hard, the surface of the cabinet will be scratched.
- The cabinet of this product is mostly composed of plastic. Do not use chemicals such as benzine or thinner to clean the cabinet. Using these chemicals may result in quality deterioration or coating removal.
- Do not expose the product to volatile gas or fluid such as pesticide. Do not make the product contact with rubber or vinyl products for a long period of time. The effect of plasticizer in the plastic may result in quality deterioration or coating removal.
- If you clean the surface of the cabinet with a wet cloth, water droplets on the surface may enter into the product, resulting in malfunction.

Handles at the rear of the Plasma Display

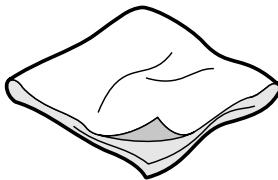
- Do not remove the handles from the rear of the Plasma Display.
- When moving the Plasma Display, ask another person for help and use the handles attached to the rear of the Plasma Display. Do not move the Plasma Display by holding only a single handle. Use the handles as shown.
- Do not use the handles to hang the product when installing or carrying the product, for example. Do not use the handles for the purpose of preventing the product from tilting over.

Supplied Accessories

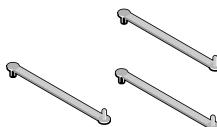
Plasma Display



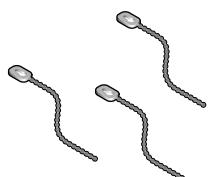
Power cord (2 m/6.6 feet)



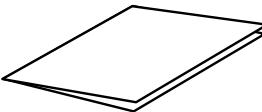
Cleaning cloth



Speed clamp × 3

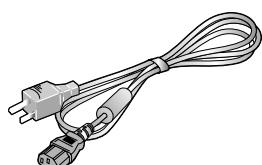


Bead band × 3

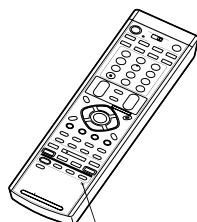


Warranty card

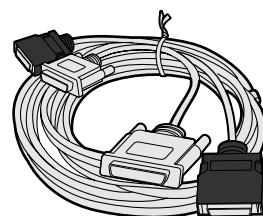
Media Receiver



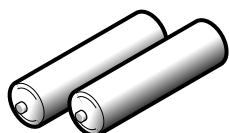
Power cord (2 m/6.6 feet)



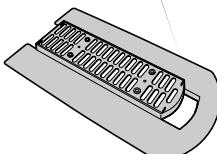
Remote control unit



System cable (3 m/9.8 feet)



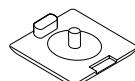
AA size battery × 2
(Alkaline battery)



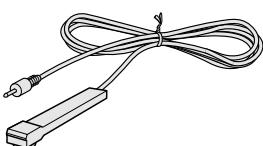
Stand



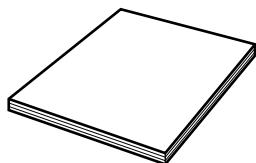
Screw × 4
(for stand)



Screw hole cap × 4



VCR controller
(1.8 m/5.9 feet)



Operating Instructions



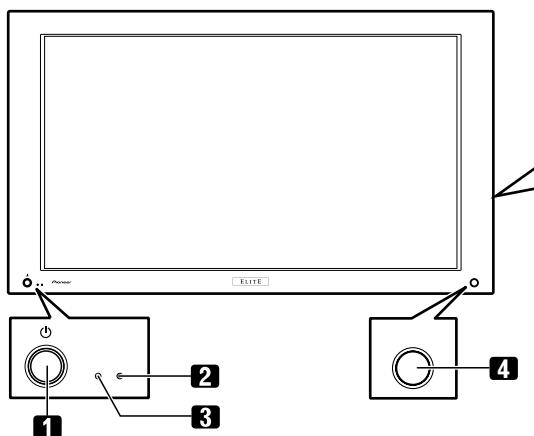
Instruction guide

NOTE

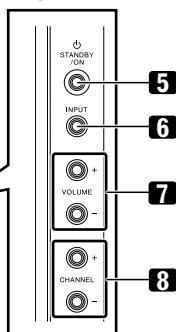
- Always use the power cord supplied with the Plasma Display and the one supplied with the Media Receiver for each respective unit.

Plasma Display

Front view

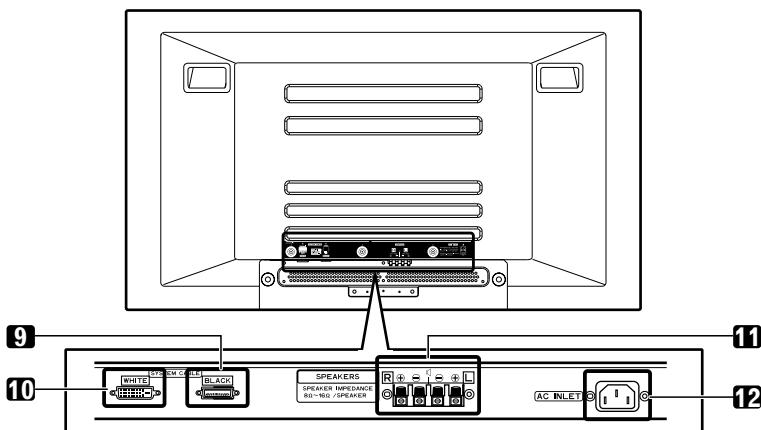


(right view)



- 1 \ominus button
- 2 STANDBY indicator
Lights red when the unit is standby mode. (page 24)
- 3 POWER ON indicator
Lights green when the Plasma Display is operating. (page 24)
- 4 Remote control sensor
- 5 STANDBY/ON button
- 6 INPUT button
- 7 VOLUME $+$ / $-$ buttons
- 8 CHANNEL $+$ / $-$ buttons

Rear view

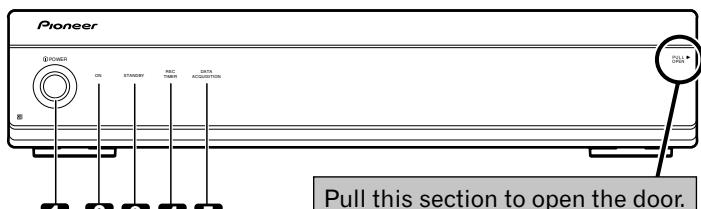


- 9 SYSTEM CABLE terminal (BLACK)
- 10 SYSTEM CABLE terminal (WHITE)
- 11 SPEAKER (right/left) terminals
- 12 AC INLET terminal

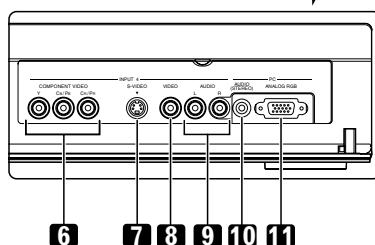
The terminals have faced downward.

Media Receiver

Front view



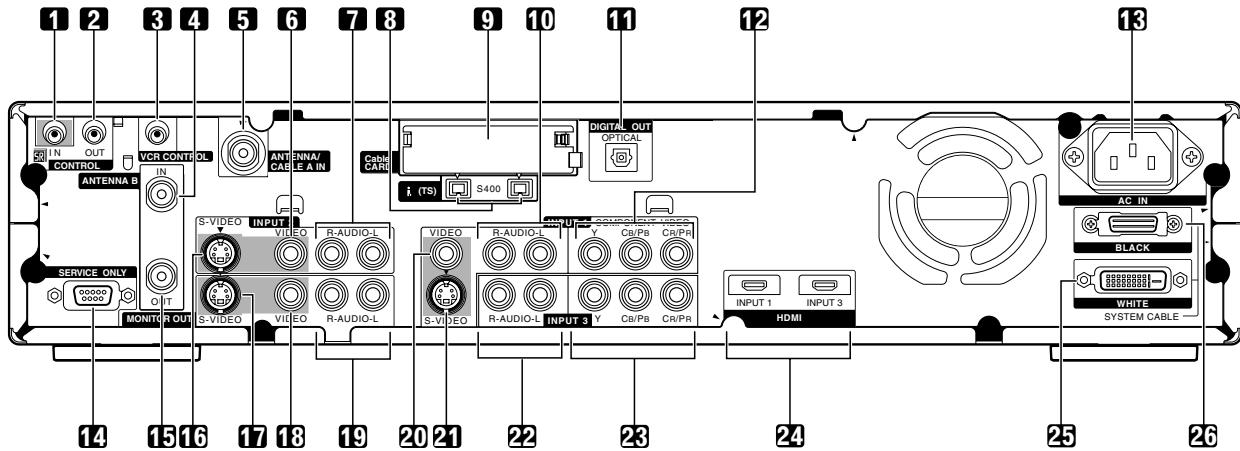
Pull this section to open the door.



- 1 POWER button
- 2 POWER ON indicator
- 3 STANDBY indicator
- 4 REC TIMER indicator
- 5 DATA ACQUISITION indicator
- 6 INPUT 4 terminals
(COMPONENT VIDEO: Y, C_B/P_B, C_R/P_R)
- 7 INPUT 4 terminal (S-VIDEO)
- 8 INPUT 4 terminal (VIDEO)
- 9 INPUT 4 terminals (AUDIO)
- 10 PC INPUT terminal (AUDIO)
- 11 PC INPUT terminal (ANALOG RGB)

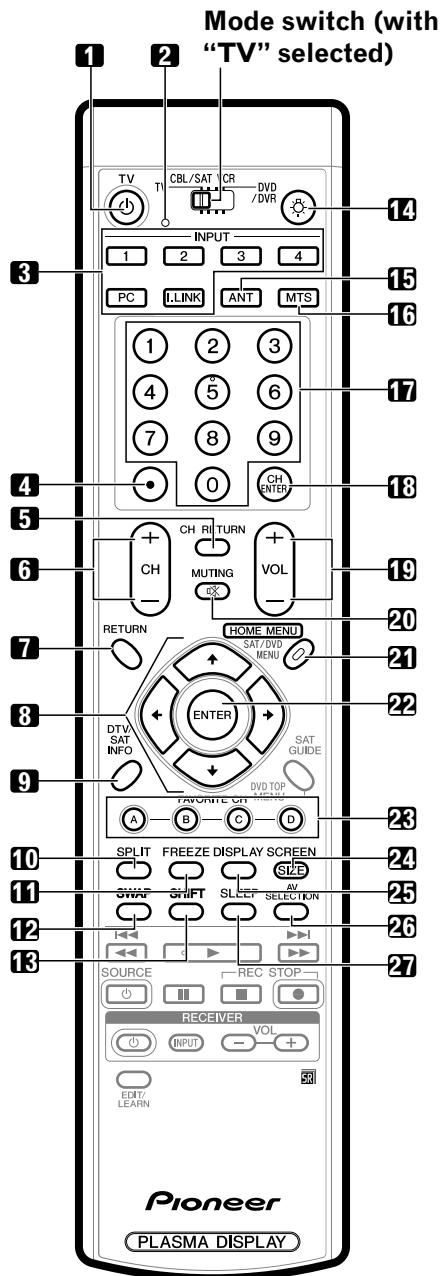
Part Names

Rear view



- 1 CONTROL IN terminal
- 2 CONTROL OUT terminal
- 3 VCR CONTROL terminal
- 4 ANTENNA B IN terminal
- 5 ANTENNA/CABLE A IN terminal
- 6 INPUT 2 terminal (VIDEO)
- 7 INPUT 2 terminals (AUDIO)
- 8 i.LINK terminals
- 9 Cable CARD slot
- 10 INPUT 1 terminals (AUDIO)
- 11 DIGITAL OUT terminal (OPTICAL)
- 12 INPUT 1 terminals (COMPONENT VIDEO: Y, C_B/P_B, C_R/P_R)
- 13 AC IN terminal
- 14 RS-232C terminal (used for factory setup)
- 15 ANTENNA B OUT terminal
- 16 INPUT 2 terminal (S-VIDEO)
- 17 MONITOR OUT terminal (S-VIDEO)
- 18 MONITOR OUT terminal (VIDEO)
- 19 MONITOR OUT terminals (AUDIO)
- 20 INPUT 1 terminal (VIDEO)
- 21 INPUT 1 terminal (S-VIDEO)
- 22 INPUT 3 terminals (AUDIO)
- 23 INPUT 3 terminals (COMPONENT VIDEO: Y, C_B/P_B, C_R/P_R)
- 24 HDMI terminals (INPUT1/INPUT3)
- 25 SYSTEM CABLE terminal (WHITE)
- 26 SYSTEM CABLE terminal (BLACK)

Remote control unit



With the mode switch set to TV

- 1 **TV** (): Turns on the power to the Plasma Display or places it into standby mode.
- 2 Transmission confirmation LED
- 3 **INPUT**: Selects an input source of the Plasma Display. (INPUT 1, INPUT 2, INPUT 3, INPUT 4, PC, i.LINK)
- 4 •(dot): Enters a dot.
- 5 **CH RETURN**: Returns to the previous channel.

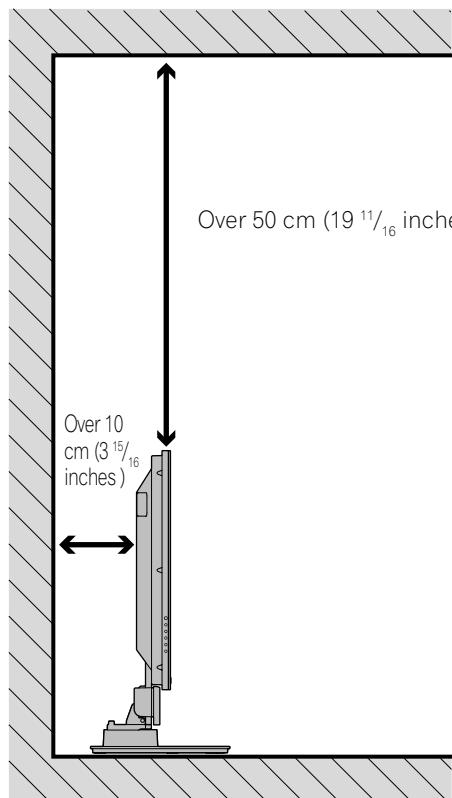
- 6 **CH +/-**: Selects the channel.
- 7 **RETURN**: Returns to the previous menu screen.
- 8 **↑/↓/←/→**: Selects a desired item on the menu screen.
- 9 **DTV INFO**: Shows more information on DTV programs.
- 10 **SPLIT**: Switches the screen mode among 2-screen, picture-in-picture, and single-screen.
- 11 **FREEZE**: Freezes a frame from a moving image. Press again to cancel the function.
- 12 **SWAP**: Switches between the two screens when in the 2-screen or picture-in-picture mode.
- 13 **SHIFT**: Moves the location of the small screen when in the picture-in-picture mode.
- 14 **PLASMA DISPLAY**: When pressed, all buttons on the remote control unit will light. The lighting will turn off if no operations are performed within about 5 seconds. This button is used for performing operations in dark places.
- 15 **ANT**: Selects the antenna (A, B). See pages 21 and 22 for details.
- 16 **MTS**: Selects the MTS/SAP.
- 17 **0 – 9**: Selects the channel.
- 18 **CH ENTER**: Executes a channel number.
- 19 **VOL +/-**: Sets the volume.
- 20 **MUTING**: Mutes the sound.
- 21 **HOME MENU**: Displays the menu screen.
- 22 **ENTER**: Executes a command.
- 23 **FAVORITE CH (A, B, C, D)**: Selects any of the four preset channels. See page 37 for details to set the FAVORITE CH. While watching, you can toggle the set channels by pressing **A**, **B**, **C** and **D**.
- 24 **SCREEN SIZE**: Selects the screen size.
- 25 **DISPLAY**: Displays the channel information.
- 26 **AV SELECTION**: Selects audio and video settings. (AV mode: STANDARD, DYNAMIC, MOVIE, GAME, USER. PC mode: STANDARD, USER.)
- 27 **SLEEP**: Sets the sleep timer.

NOTE

- When using the remote control unit, point it at the Plasma Display.
- See pages 62 to 68 for operating buttons not listed on this page.

Preparation

Installing the Plasma Display



Using the optional PIONEER stand

For details on installation, refer to the instruction manual supplied with the stand.

⚠ CAUTION

- This product may be used only with model PDK-1012 stand. Use with other stands may result in instability causing possible injury.

Using the optional PIONEER speakers

For details on installation, refer to the instruction manual supplied with the speaker.

⚠ CAUTION

Operating Environment

Operating environment temperature and humidity: +0°C to +40°C (+32°F to +104°F); less than 85% RH (cooling vents not blocked)

Avoid installing at the following locations:

- Under direct exposure to sunlight
- Under strong artificial light
- In high humidity
- Poorly ventilated

Locating

- Avoid direct sunlight. Maintain adequate ventilation.
- The length of the system cable used to connect the Plasma Display and the Media Receiver is about 3 m (9.8 feet).
- Because the Plasma Display is heavy, be sure to have someone help you when moving it.

⚠ CAUTION

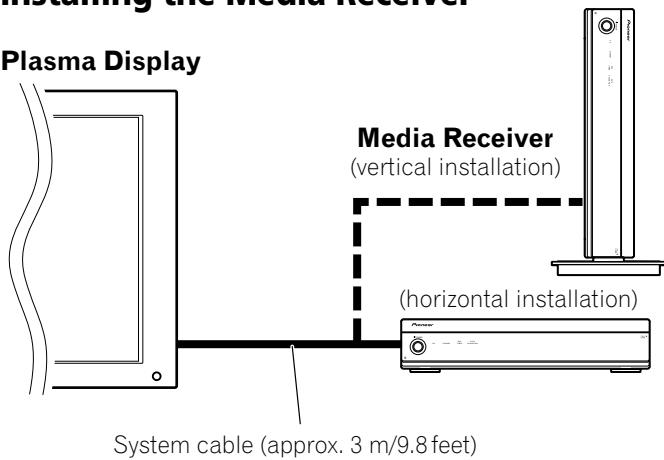
- If you place anything on the top of the Media Receiver it will not receive enough ventilation and will not operate properly.

>Note

- Allow enough space around the upper and back parts when installing to ensure ventilation around the backside.

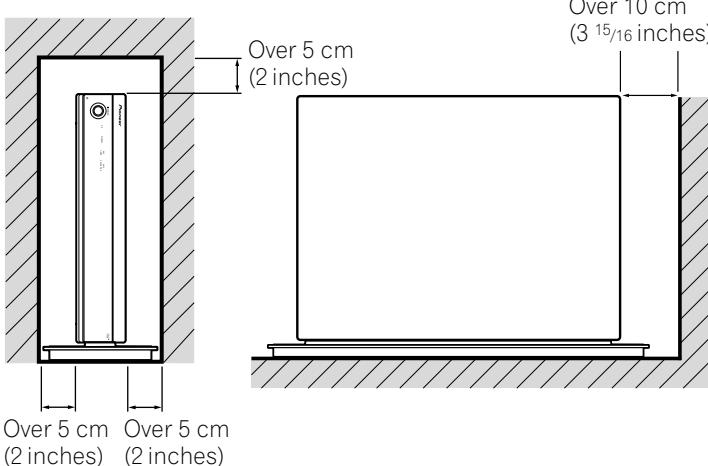
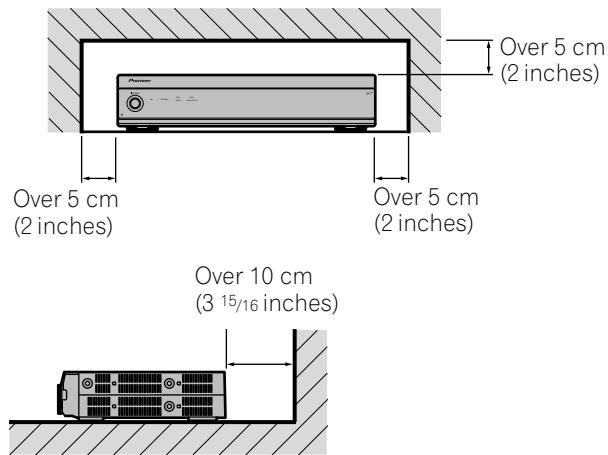
Installing the Media Receiver

Plasma Display



CAUTION

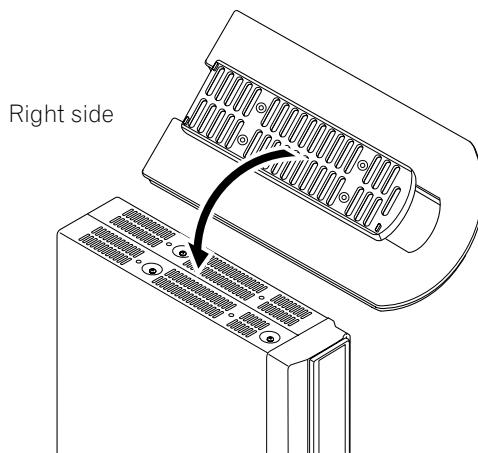
- Do not place a VCR or any other device on the top of the Media Receiver.
- When installing, allow enough space on the sides and above the Media Receiver.
- Do not block the side cooling vents or the rear ventilation fan opening of the Media Receiver.



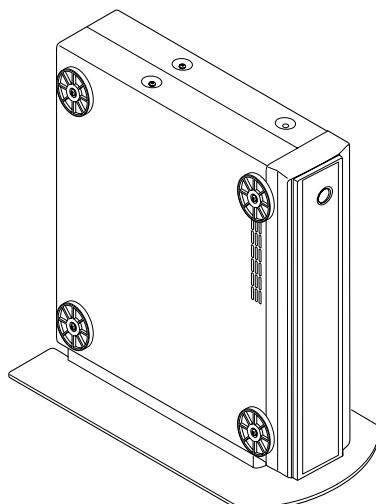
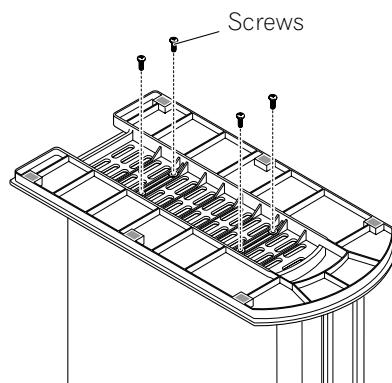
Installing the Media Receiver vertically

You can use the supplied stand to install the Media Receiver vertically.

1. Insert the stand into the side of the Media Receiver.

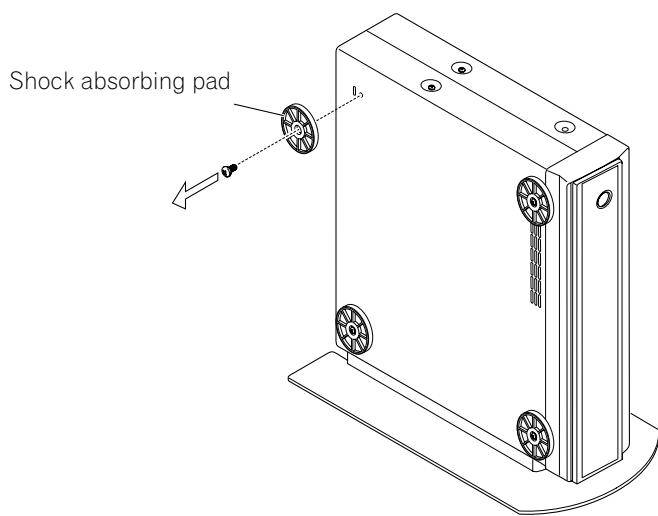


2. Secure the stand with the supplied screws.



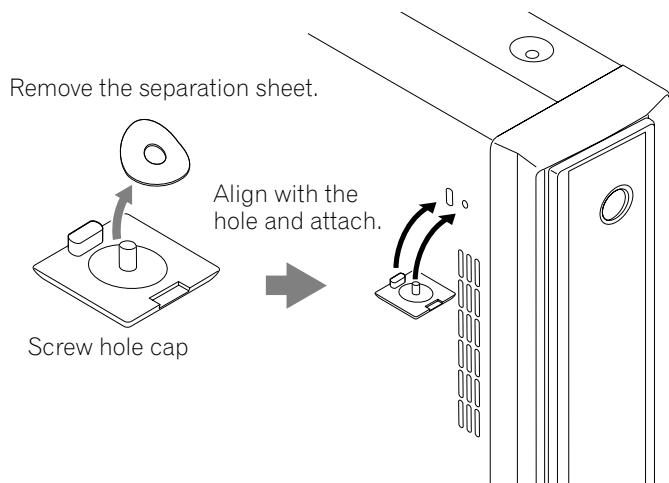
Preparation

3. Remove the shock absorbing pads.



Keep the shock absorbing pads and screws. They are required when you place the Media Receiver in the horizontal position.

4. Plug the screw holes using the supplied caps.

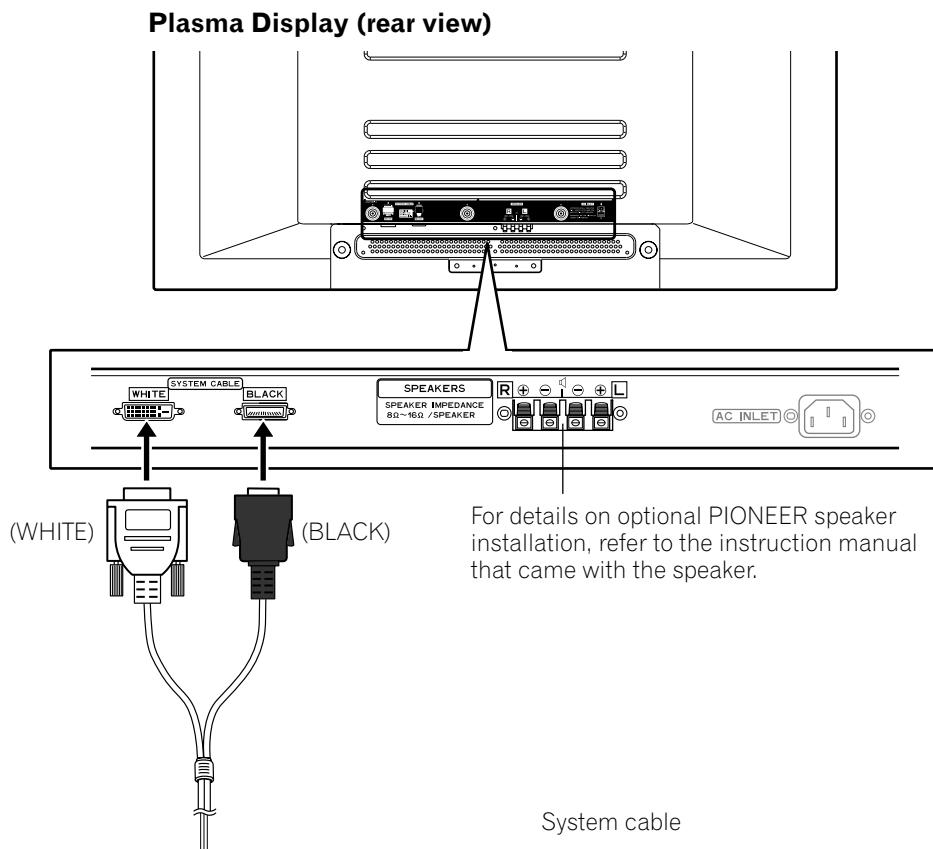


⚠ CAUTION

- When you have installed the Media Receiver vertically, be sure to use the supplied stand. If you place the unit directly on the floor, the cooling vents will be blocked, resulting in mechanical failure.

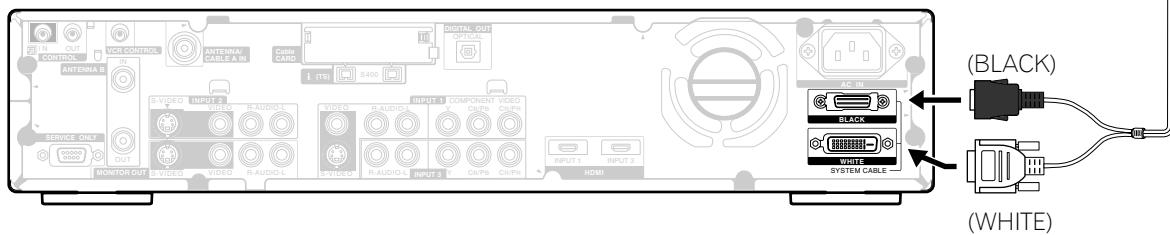
Connecting the system cable

Connecting the system cable to the Plasma Display



Connecting the system cable to the Media Receiver

Media Receiver (rear view)



⚠ CAUTION

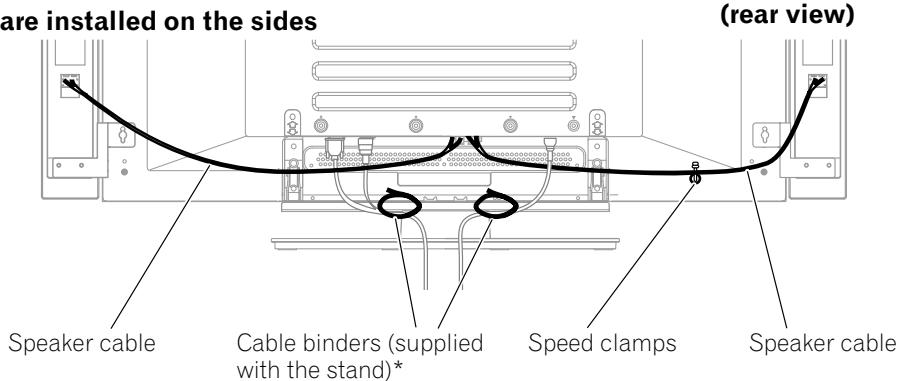
- THESE SPEAKER TERMINALS CAN BE APPLIED WITH HAZARDOUS VOLTAGE WHEN YOU CONNECT OR DISCONNECT THE SPEAKER CABLES. TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT TOUCH UNINSULATED PARTS BEFORE DISCONNECTING THE POWER CORD.

Preparation

Routing cables

Speed clamps and bead bands are supplied for bunching cables. Once properly bunched, follow the steps below to route the cables.

When the speakers are installed on the sides

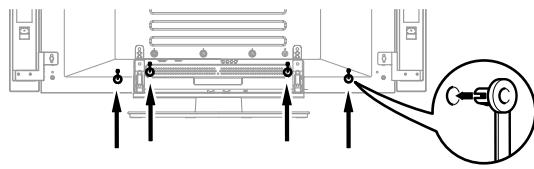


*Cable binder

Using the cable binders supplied with the stand, put the speaker and system cables together so that the cables are invisible from the front. At that time be careful not to apply any force to the connection sections of the cables.

Attaching speed clamps to the main unit

Attach the speed clamps using the 4 holes marked with ↑ below, depending on your routing system.

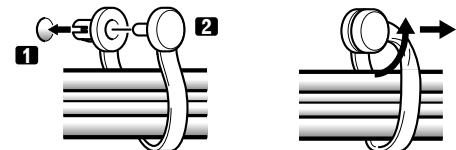


Attaching and removing speed clamps

Insert [1] into an appropriate hole on the rear of the Plasma Display and snap [2] into the back of [1] to lock the clamp.

Speed clamps are designed to be difficult to undo once in place. Please attach them carefully.

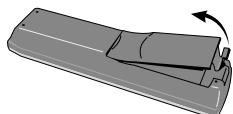
Use pliers to twist the clamp 90°, pulling outward. The clamp may deteriorate over time and become damaged if removed.



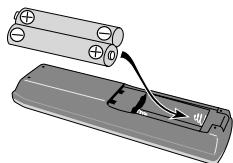
Preparing the remote control unit

Inserting batteries

- 1 Open the battery cover.

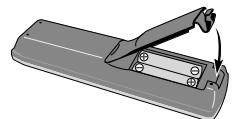


- 2 Insert the supplied two AA size batteries.



- The battery polarities must correspond with the (+) and (-) indicators in the battery compartment.

- 3 Close the battery cover.



Cautions regarding batteries

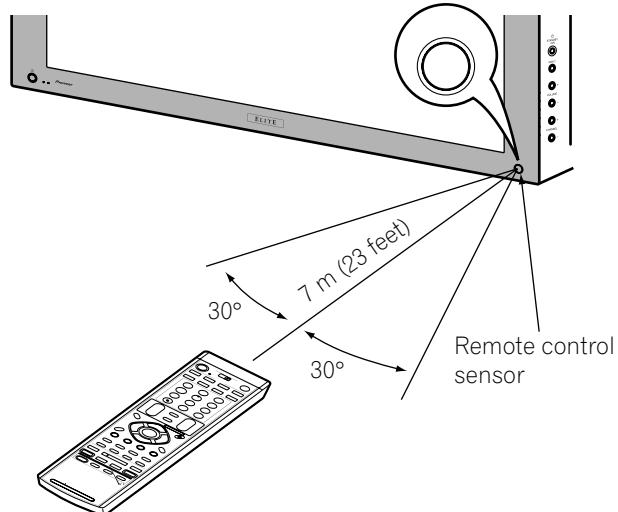
- The remote control unit cannot operate the system if the batteries in the unit are empty. When this happens, replace the batteries with new ones.
- Do not use manganese batteries. When you replace the batteries, use alkaline ones.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Do not leave dead batteries in the remote control unit; chemical leakage will occur. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not use the remote control unit for an extended period of time, remove the batteries from it.

CAUTION

- **WHEN DISPOSING OF USED BATTERIES, BE SURE TO COMPLY WITH GOVERNMENT REGULATIONS AND ENVIRONMENTAL PROTECTION GUIDELINES THAT APPLY IN YOUR COUNTRY OR AREA.**

Allowed operation range of the remote control unit

Operate the remote control unit while pointing it toward the remote control sensor located at the bottom right of the front panel of the Plasma Display. The distance from the remote control sensor must be within 7 m (23 feet) and the angle relative to the sensor must be within 30 degrees in the right or left direction.



Cautions regarding the remote control unit

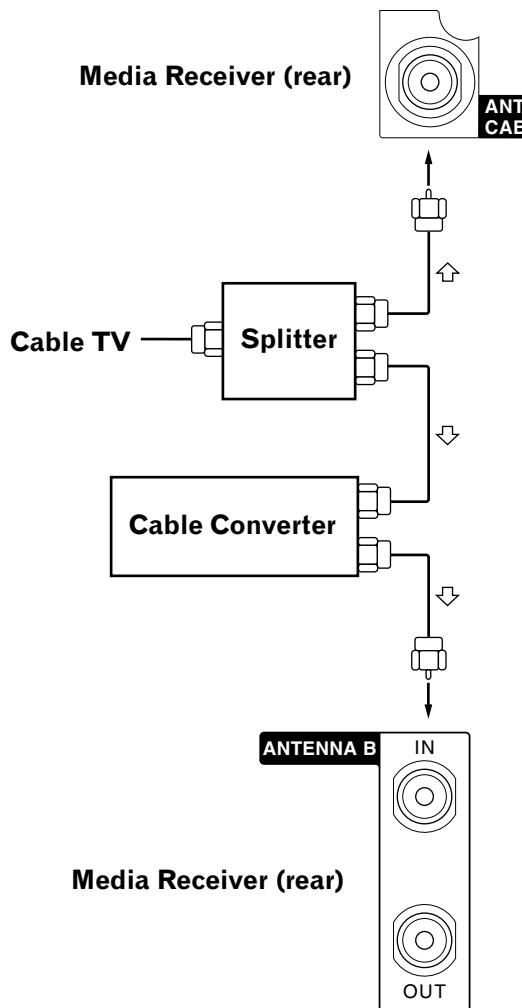
- Do not expose the remote control unit to shock, liquid, or high humidity.
- Do not place the remote control unit under direct sunlight; the unit may deform.
- The remote control unit may not work properly if the remote sensor window of the Plasma Display is under direct sunlight or strong lighting. In such case, change the angle of the lighting or Plasma Display, or operate the remote control unit closer to the remote sensor window.
- When any obstacle exists between the remote control unit and the remote control sensor, the remote control unit may not function.
- As the batteries become empty, the remote control unit can function within a shorter distance from the remote control sensor. Replace the batteries with new ones if necessary.
- The Plasma Display emits very weak infrared rays from its screen. If you place such equipment operated through infrared remote control as a VCR nearby, that equipment may not receive commands from its remote control unit properly or entirely. If this is the case, place that equipment at a location far enough from the Plasma Display.
- Depending on the installation environment, infrared rays from the Plasma Display may not allow this system to properly receive commands from the remote control unit or may shorten allowable distances between the remote control unit and the remote control sensor. The strength of infrared rays emitted from the screen differs, depending on images displayed on the screen.

Preparation

Cable connections for watching digital and/or conventional TV channels

This system is equipped with two terminals for inputting TV broadcasting signals: ANTENNA/CABLE A IN and ANTENNA B. The ANTENNA/CABLE A IN terminal accepts both digital and conventional TV broadcasting signals while the ANTENNA B terminal accepts only conventional TV broadcasting signals. When using a cable TV to watch digital and/or conventional TV channels, connect to the ANTENNA/CABLE A IN terminal as shown. In addition, you may connect an antenna to the ANTENNA B terminal as shown; use an outdoor antenna to enjoy clearer pictures. If your outdoor uses a 75-ohm coaxial cable with an F-type connector, plug it into the antenna terminal at the rear of the Media Receiver.

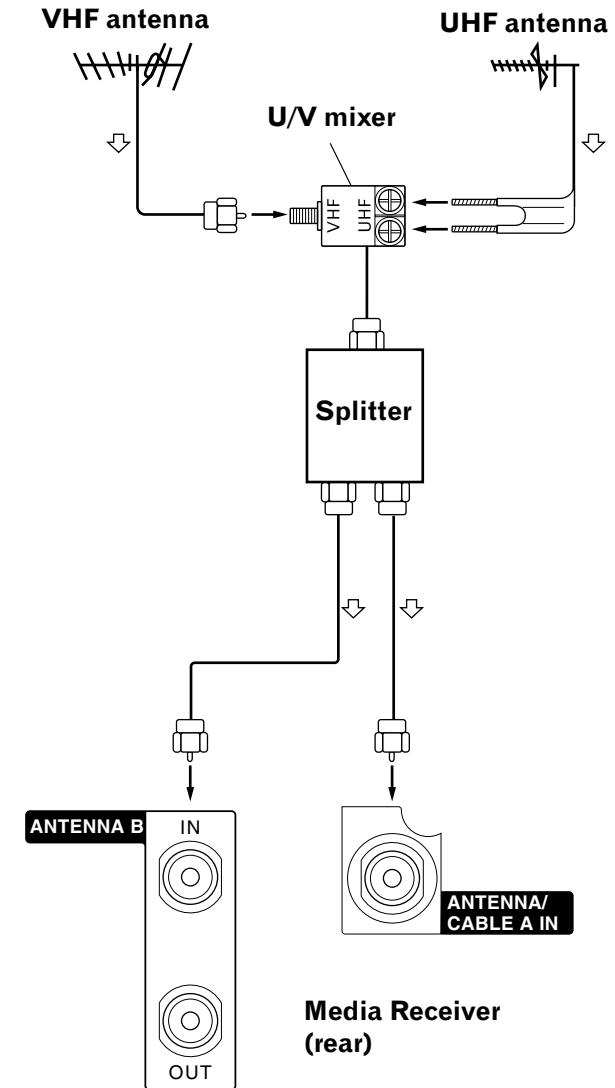
Connecting VHF/UHF antennas and a Cable Converter



Cable connections for watching digital TV channels over air (VHF/UHF)

If using VHF and UHF antennas to watch digital TV channels, connect the coaxial cables as shown.

Connecting VHF/UHF antennas



NOTE

- Be sure to connect coaxial cables as shown above. Signal reception may fail if not properly connected.

NOTE

- Be sure to connect coaxial cables as shown above. Signal reception may fail if not properly connected.

Switching between antenna A and B

To watch broadcasts via the two antennas, you can select it by pressing **ANT** on the remote control unit.

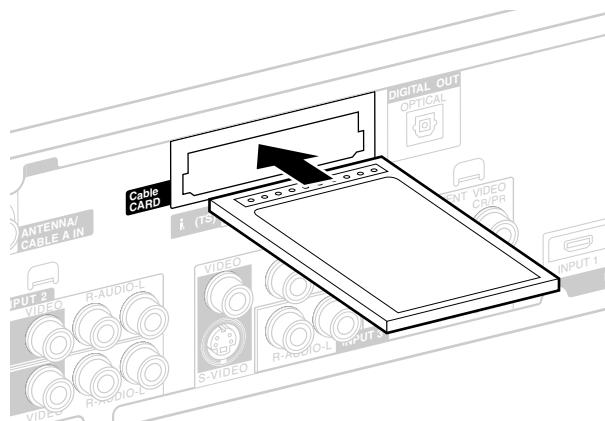
- While watching a broadcast, press **ANT** to view the image received from the other antenna.
- Pressing **ANT** while watching in the 2-screen mode (TV image and video image) with TV selected will display the TV image of the other antenna.
- Pressing **ANT** while watching in the 2-screen mode with two TV images displayed will not have any effect.
- Pressing **ANT** while watching in the 2-screen mode with two video images displayed will switch the selected screen to a TV image.

Inserting the cable card

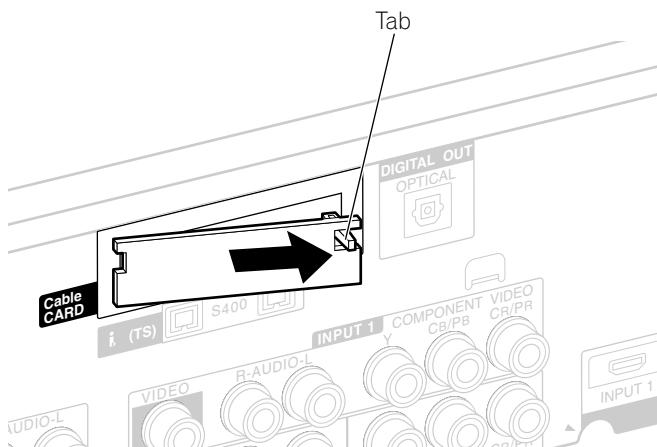
The Media Receiver is equipped with a slot for inserting a cable card. When you are watching digital and/or High Definition TV channels over cable, the card allows you to use the POD service provided by the cable TV company; the POD stands for Point of Deployment. This service presents various types of useful information, using HTML text.

- 1 Confirm that the ANTENNA/CABLE A IN terminal has been connected with the coaxial cable from the Cable Converter. See page 21.
- 2 Hold the tab of the slot cover on the rear of the Media Receiver, and remove the cover while releasing the tab's latch.

3 Insert the specified cable card into the Cable CARD slot as far as it goes.



- Be sure to insert only the specified cable card.
- Do not insert a PCMCIA card.

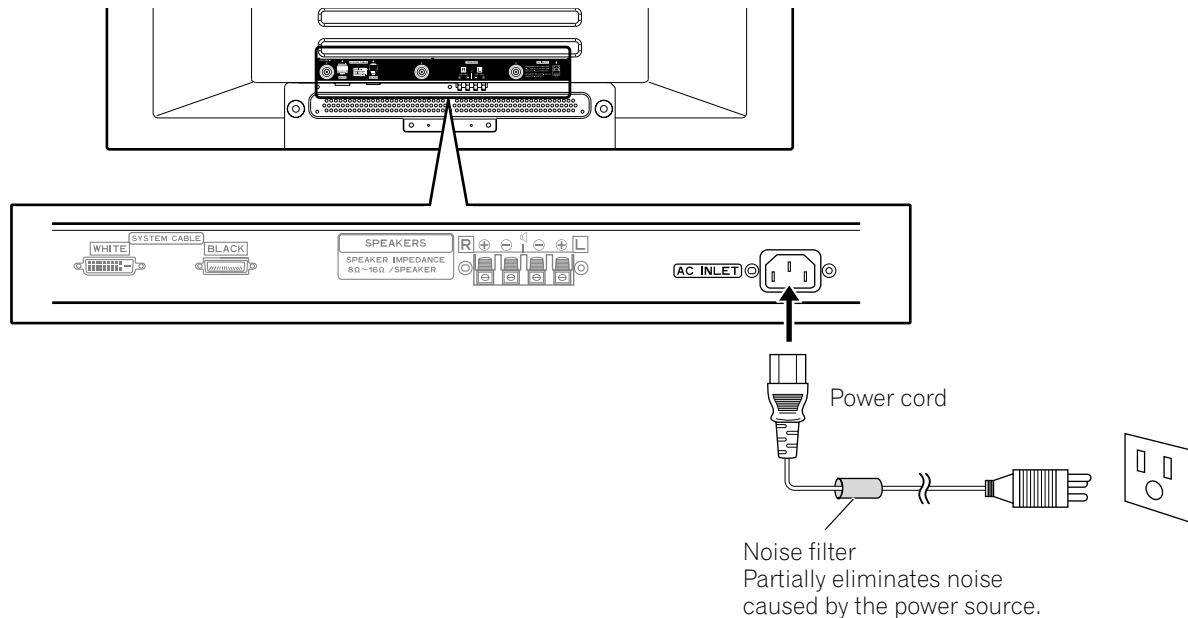


Preparation

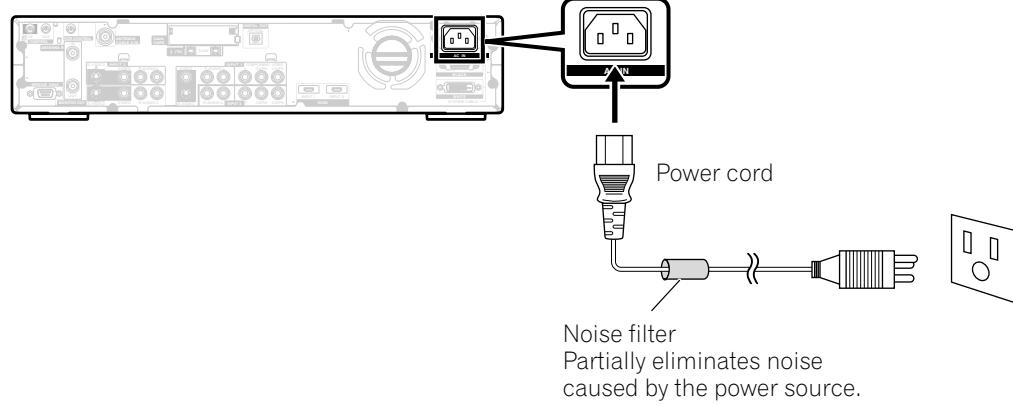
Connecting the power cord

Connect the power cord after all component connections have been completed.

Plasma Display (rear view)



Media Receiver (rear view)



CAUTION

- Use only the supplied power cord.
- Be sure to use the specified power supply voltage; neglecting this can result in fire or electric shock.
- For the Plasma Display System, a three-core power cord with a ground terminal is used for efficiency protection. Always connect the power cord to a three-pronged outlet and make sure that the cord is properly grounded.

NOTE

- Always turn off the power of the Plasma Display and Media Receiver when connecting the power cords.
- Disconnect the power cord from the power outlet when the Plasma Display System is not going to be used for a long period of time.

Turning on the power (Standby)

- 1 Press **POWER** on the Plasma Display if the STANDBY indicator is off.
 - The STANDBY indicator on the Plasma Display lights up red.
- 2 Confirm that the STANDBY indicators light up red, and then press **TV POWER** on the remote control unit or **STANDBY/ON** on the Plasma Display or **POWER** on the Media Receiver to turn the system on.
 - The POWER ON indicators on the Plasma Display and Media Receiver light up green.

NOTE

- In this manual, "system" means the Plasma Display Panel and Media Receiver.

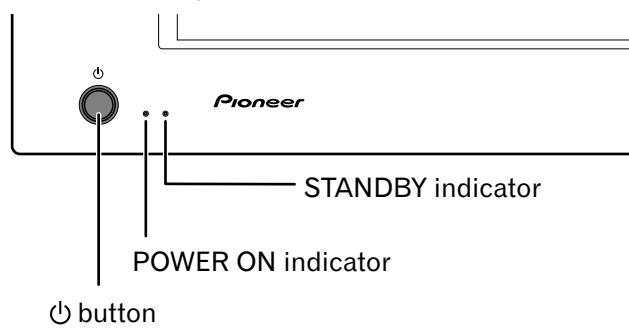
Turning off the power (Standby)

- 1 Press **TV POWER** on the remote control unit or **STANDBY/ON** on the Plasma Display or **POWER** on the Media Receiver.
 - The system enters the standby mode and the image on the screen disappears.
 - Both STANDBY indicators light up red.
 - It is recommended to place the system into the standby mode by pressing **TV POWER** on the remote control unit. This allows the system to automatically receive digital TV program information in the standby mode.

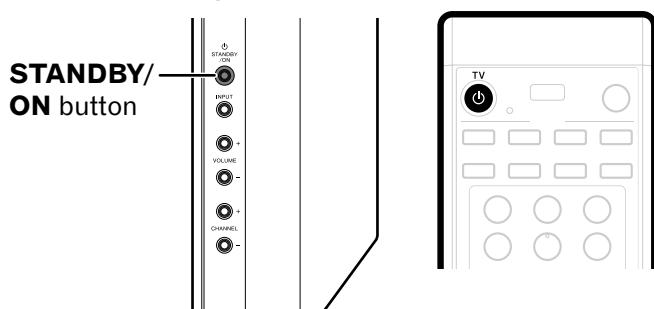
NOTE

- If you are not going to use this system for a long period of time, press **POWER** on the Plasma Display and remove the power cord from the power outlet.

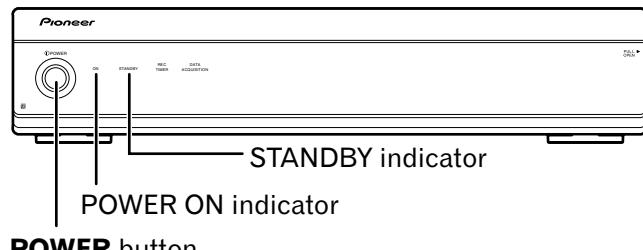
Plasma Display



(right view)



Media Receiver



Plasma Display/Media Receiver status indicators

Indicator Status				System Status
Plasma Display		Media Receiver		
POWER ON	STANDBY	POWER ON	STANDBY	
●	●	●	●	Power to the Plasma Display and Media Receiver is off. Or the power cords have been disconnected.
●	●	●	●	Power to the system is on.
●	●	●	●	The system is in the standby mode.
●	●	●	●	The power cord has been disconnected from the Media Receiver.
●	●	●	●	Power to the Plasma Display is off. Or the power cord has been disconnected from the Plasma Display.

For other than the above, see "Troubleshooting" on page 69.

Basic Operations

Watching TV channels

Unless you set up TV channels that you can watch under the current conditions, you cannot tune in those channels. For the procedure, see "Setting up TV channels" on page 31.

NOTE

- When watching a digital TV program, you may see emergency alert messages scrolling at the top of the screen. Those messages are broadcasted by TV stations as necessary when in emergency situations.

Selecting the antenna

After confirming that the Mode switch on the remote control unit has been set to "TV", press **ANT** on the remote control unit to select antenna A or B.

- Make this selection depending on the connections to the antenna input terminals on the Media Receiver (page 21).

Changing channels

To increase the channel number, press **CH +** on the remote control unit. To decrease the channel number, press **CH -**.

- CHANNEL +/-** on the Plasma Display operates the same as **CH +/-** on the remote control unit.
- Press **CH RETURN** to switch the currently tuned channel to the previously tuned channel.
Press **CH RETURN** again to restore the currently tuned channel.

Using 0 – 9 and • (dot) on the remote control unit

Select channels directly by pressing buttons **0** to **9**. To select subchannels, also use the • (dot) button.

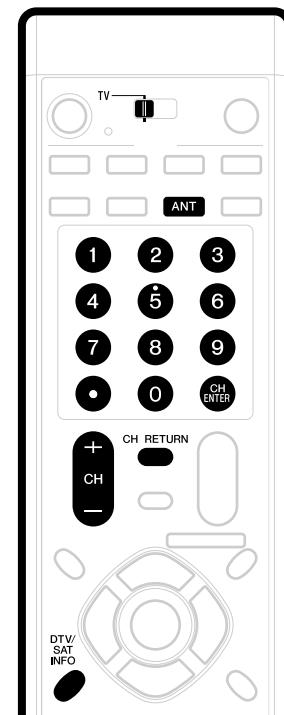
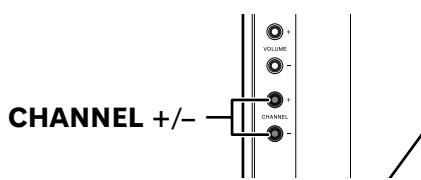
EXAMPLE

- To select channel 5 (1-digit channel), press **5**.
- To select channel 25 (2-digit channel), press **2** then **5**.
- To select channel 125 (3-digit channel), press **1**, **2**, then **5**.
- To select subchannel 10.01, press **1**, **0**, • (dot), **0**, then **1**.
- To select subchannel 10.001 (for the cable TV), press **1**, **0**, • (dot), **0**, **0**, then **1**.

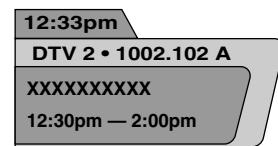
NOTE

- After entering a channel or subchannel number, you may press **CH ENTER** to tune in the channel more quickly.
- Each time you change a channel, such a channel banner appears that shows information about the currently selected channel. To clear the channel banner, press **DTV INFO**. For more information about the channel banner, see "Viewing a channel banner" on page 26.

Plasma Display (right view)



Channel banner

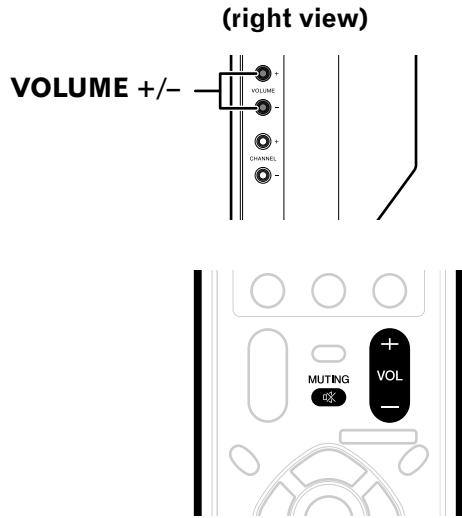


Changing the volume and sound

To increase the volume, press **VOL +** on the remote control unit. To decrease the volume, press **VOL -**.

- **VOLUME +/-** on the Plasma Display operates the same as **VOL +/-** on the remote control unit.
- To mute the sound output, press **MUTING**. “” appears on the screen. To quit muting, press **MUTING** again. Pressing **VOL +** also quits muting.

Plasma Display



Volume adjustment

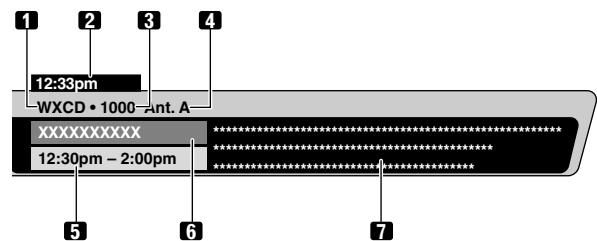
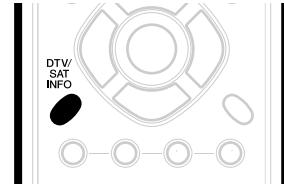


Muting



Viewing a channel banner

While watching a digital TV program, pressing **DTV INFO** causes the following banner to appear. Pressing **DTV INFO** again causes the banner to disappear.



- 1 Station name
- 2 Current time
- 3 Channel number
- 4 Input (Ant. A or Ant. B)
- 5 Program time schedule
- 6 Program title
- 7 TV rating and program description (This may be unavailable for some programs.)

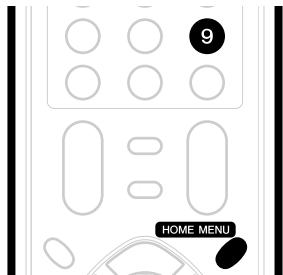
NOTE

- The above information is not displayed if not included in broadcast signals.
- If “” is shown at the bottom right of the channel banner containing program description, press **▲/▼** to scroll the program description.

Basic Operations

Using the POD service

If you have watched digital and/or High Definition TV channels over cable, you can use the POD service provided by the cable TV company. This service presents various types of useful information, using HTML text.



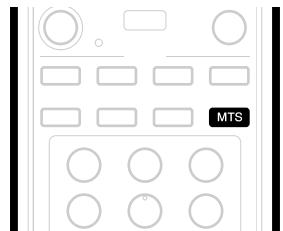
Press **HOME MENU**, **9**, **9**, then **9** to view the POD display.

NOTE

- If you have enabled data acquisition using the menu, POD information is automatically acquired even when the system is in the standby mode. See page 32.

Changing the language

If you have selected a digital TV program that provides multi-language services, you can switch among the languages by pressing **MTS** on the remote control unit.



Each time you press **MTS**, the language switches.

NOTE

- Switchable languages differ depending on the current broadcast.
- If the language selected through language setting is available when the channel or program is changed, you will hear that language.

Setting MTS/SAP mode

When watching conventional TV programs, you may enjoy stereo sound and/or Secondary Audio Programs (SAP), using the Multi-channel Television Sound (MTS) function.

• Stereo broadcasts

You can enjoy, for example, sports, shows, and concerts in dynamic stereo sound.

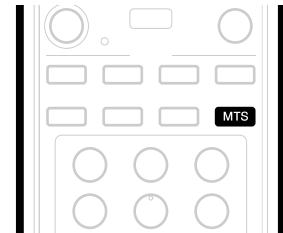
• SAP broadcasts

MAIN sound: The normal program soundtrack (either in mono or stereo).

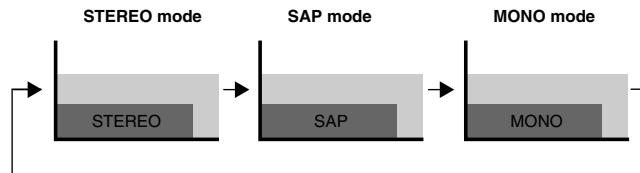
SAP sound: Listen to second language, supplementary commentary and other information. (SAP is mono sound.)

NOTE

- Conventional TV channels in this manual designate TV channels that are received through the conventional VHF/UHF frequencies or conventional cable TV channels.
- When stereo sound is difficult to hear, you may manually switch to the MONO mode to obtain clearer sound.
- Once the MONO mode is selected, the Plasma Display System sound remains mono even if the system receives a stereo broadcast. You must reselect the STEREO mode if you want to hear stereo sound again.
- Selecting MTS while the input source is INPUT 1 to 4 or PC does not change the type of sound. In this case, sound is determined by the video source.



Each time you press **MTS**, MTS toggles as shown below.



NOTE

- In each of the MTS/SAP modes selected using the **MTS** button, the display changes depending on broadcasting signals being received.

When receiving STEREO sound signals



In STEREO mode



In SAP mode

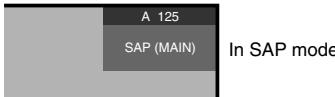


In MONO mode

When receiving MAIN + SAP sound signals



In STEREO mode



In SAP mode



In MONO mode

When receiving STEREO + SAP sound signals



In STEREO mode



In SAP mode



In MONO mode

When receiving MONO sound signals



In STEREO mode



In SAP mode



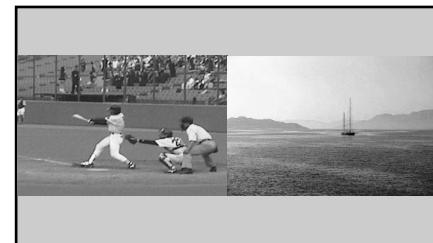
In MONO mode

Using the multiscreen functions

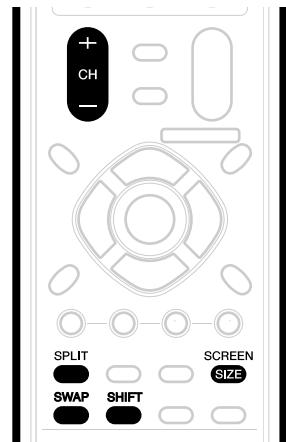
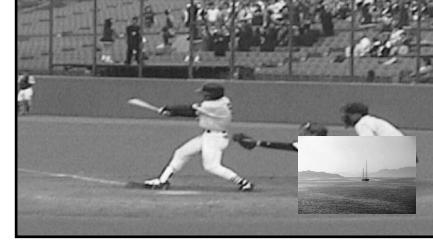
Splitting the screen

Use the following procedure to select the 2-screen or picture-in-picture mode.

2-screen



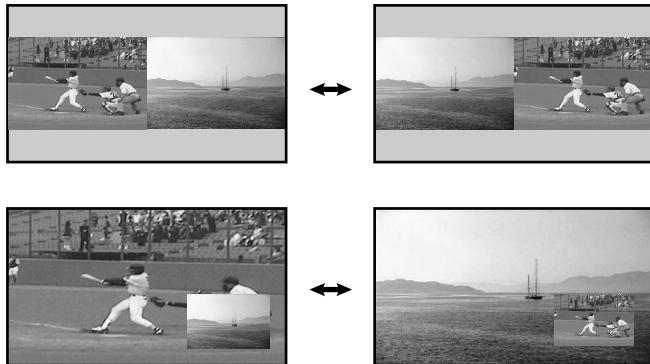
Picture-in-picture



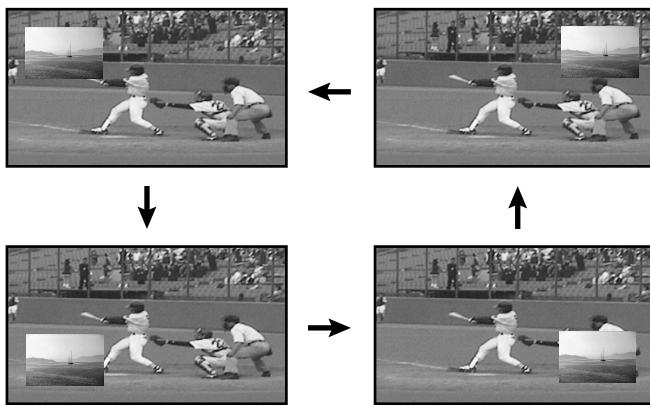
- 1 Press **SPLIT** to select the display mode.
 - Each time you press **SPLIT**, the display mode is switched among 2-screen, picture-in-picture, and single-screen.

Basic Operations

- In 2-screen or picture-in-picture mode, press **SWAP** to switch the position of the 2 screens shown. Left screen is the active screen which will be indicated by “”. The user is allowed to operate picture and sound.



- In 2-screen mode, press **SCREEN SIZE** to change the size of the left screen.
- In picture-in-picture mode, press **SHIFT** to move the position of the small screen in anti-clockwise.



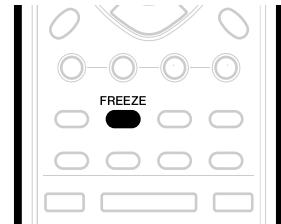
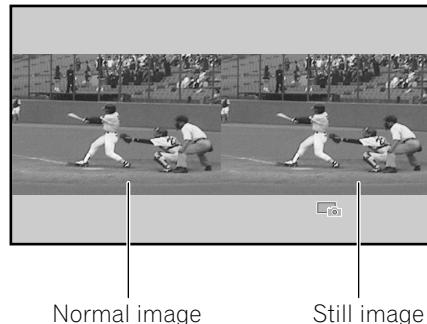
- To select the desired input source, press the appropriate input source button.
 - If watching TV programs, press **CH +/-** to change the channel.

NOTE

- The multiscreen function cannot display images from the same input source at the same time. If you make such an attempt, a warning message appears.
- When you press **HOME MENU** or **DTV INFO**, the single-screen mode is restored and the corresponding menu is displayed.
- When the two screens show the same analog broadcasting coming through antenna A and B, the picture quality may differ between the two screens.

Freezing images

Use the following procedure to capture and freeze one frame from a moving image that you are watching.



1 Press **FREEZE**.

- A still image appears on the right screen while a moving image is shown on the left screen.

2 Press **FREEZE** again to cancel the function.

NOTE

- With the screen split, any image cannot be frozen.
- When this function is not available, a warning message appears.

Menu configuration

AV mode menus

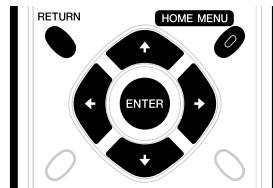
Home Menu	Item	Page
Picture	AV Selection	40
	Contrast	41
	Brightness	41
	Color	41
	Tint	41
	Sharpness	41
	Pro Adjust	41
	Reset	41
Sound	Treble	43
	Bass	43
	Balance	43
	Reset	43
	FOCUS	43
	Front Surround	43
Power Control	Energy Save	44
	No Signal off	44
	No Operation off	44
Sleep Timer	—	40
Option	Position	45
	Side Mask	47
	HDMI Input	51, 52
	Monitor Out	52, 53
	Digital Audio Out	54
	Language	47
Tuner Setup	Channel Setup	31, 32
	Parental Control	33–37
	Favorites	37
	Closed Captions	37–39
	Recorder Setup	56–57
	Clock	39
Timers	—	48, 49

PC mode menus

Home Menu	Item	Page
Picture	AV Selection	40
	Contrast	41
	Brightness	41
	Red	41
	Green	41
	Blue	41
	Reset	41
Sound	Treble	43
	Bass	43
	Balance	43
	Reset	43
	FOCUS	43
Power Control	Front Surround	43
	Energy Save	44
Power Management	Power Management	44
	—	40
Option	Auto Setup	45
	Manual Setup	45

Menu operations

The following describes the typical procedure for setting up the menus. For the actual procedures, see the appropriate pages that describe individual functions.



- 1 Press **HOME MENU**.
- 2 Press **↑/↓** to select a menu item, and then press **ENTER**.
- 3 Repeat step 2 until you access the desired submenu item.
 - The number of menu layers differs depending on menu items.
 - If you select “Tuner Setup” or “Timers”, a menu bar appears at the bottom of the screen. To select a submenu item on the bar, press **←/→** instead of **↑/↓**.
- 4 Press **←/→** to select an option (or parameter), and then press **ENTER**.
 - For some menu items, press **↑/↓** instead of **←/→**.
- 5 Press **HOME MENU** to exit the menu.



NOTE

- You can return to the upper menu levels by pressing **RETURN**.

Tuner Setup

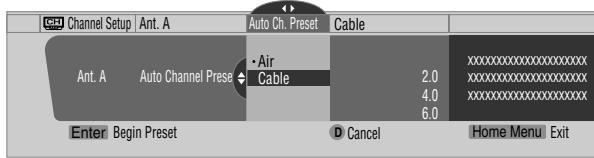
Setting up TV channels

This section describes how to search and set up TV channels that you can watch under the current conditions. Unless you set up TV channels using Auto Channel Preset, you may not be able to tune in those channels.

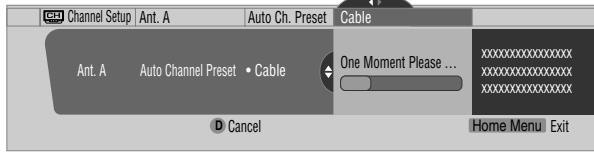
Using Auto Channel Preset

Auto Channel Preset automatically searches and sets up TV channels.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Channel Setup". (**←/→** then **ENTER**)
- 4 Select "Ant. A" or "Ant. B". (**↑/↓** then **ENTER**)
- 5 Select "Auto Channel Preset". (**↑/↓** then **ENTER**)
- 6 Select "Air" or "Cable". (**↑/↓** then **ENTER**)



- Channel search automatically starts.



- To quit Auto Channel Preset halfway, press **D**.
- 7 After Auto Channel Preset has been finished, press **HOME MENU** to exit the menu.

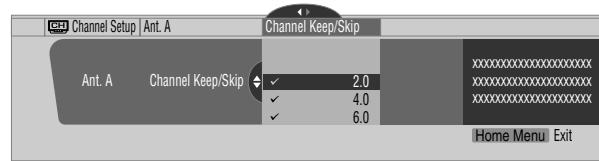
NOTE

- When using the Cable Converter, you may need to manually add Cable Converter output channels.

Setting for skipping unwanted channels

From among TV channels searched and set up using Auto Channel Preset, you can select channels to be skipped when **CH +/−** are operated.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Channel Setup". (**←/→** then **ENTER**)
- 4 Select "Ant. A" or "Ant. B". (**↑/↓** then **ENTER**)
- 5 Select "Channel Keep/Skip". (**↑/↓** then **ENTER**)
- 6 Select a channel to be skipped. (**↑/↓** then **ENTER**)



- For the skipped channel, a check mark disappears.

- 7 Press **HOME MENU** to exit the menu.

NOTE

- To restore skipped channels, use the above procedure except that you select a skipped channel in step 6.
- When using the Cable Converter, you may need to manually add Cable Converter output channels.

Setting up TV channels manually

This section describes how to manually set up TV channels that have not been set up by Auto Channel Preset.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Channel Setup". (**←/→** then **ENTER**)
- 4 Select "Ant. A" or "Ant. B". (**↑/↓** then **ENTER**)
- 5 Select "Add Channel". (**↑/↓** then **ENTER**)
- 6 Select a channel number to be added. (**↑/↓** then **ENTER**)
 - You can also use buttons **0 – 9** to enter a channel number.

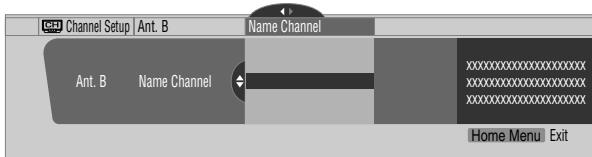


- After **ENTER** has been pressed, a confirmation screen appears.
- 7 Press **A** to complete the setup processing.
- 8 Press **HOME MENU** to exit the menu.

Naming TV channels

You can name TV channels that you have set up for antenna B. This may help you easily identify the channels during selections.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Channel Setup". (**←/→** then **ENTER**)
- 4 Select "Ant. B". (**↑/↓** then **ENTER**)
- 5 Select "Name Channel". (**↑/↓** then **ENTER**)
- 6 Select a channel. (**↑/↓** then **ENTER**)
 - You can also use buttons **0 – 9** to enter a channel number.



- 7 Enter up to 7 alphanumeric characters using **↑/↓**, **←/→**, and **ENTER**.
 - To clear the last character, press **B**.

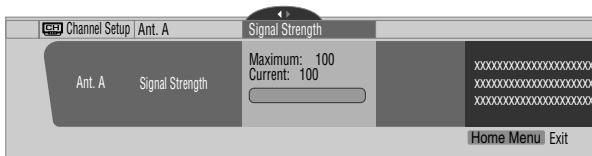


- 8 Press **A**.
- 9 Press **HOME MENU** to exit the menu.

Checking signal strength

When you have selected antenna A, you can check the current channel's signal strength. You may use this function when receiving a channel through a VHF/UHF antenna.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Channel Setup". (**←/→** then **ENTER**)
- 4 Select "Ant. A". (**↑/↓** then **ENTER**)
- 5 Select "Signal Strength". (**↑/↓** then **ENTER**)



- Adjust the direction of the antenna so that the current signal strength reaches as close to the maximum signal strength as possible.
- 6 Press **HOME MENU** to exit the menu.

Checking the Cable Card ID

The Media Receiver has a slot for a cable card that is used for managing your information by the cable TV company. The following procedure allows you to check your Cable Card ID and the Host ID.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Channel Setup". (**←/→** then **ENTER**)
- 4 Select "POD ID". (**↑/↓**)
 - The Host ID and Cable Card ID appear.
- 5 Press **HOME MENU** to exit the menu.

Enabling data acquisition

Use this function to enable the system to automatically acquire information about digital TV programs even when in the standby mode.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Channel Setup". (**←/→** then **ENTER**)
- 4 Select "Data Acqu". (**↑/↓** then **ENTER**)
- 5 Select "Enabled". (**↑/↓** then **ENTER**)
- 6 Press **HOME MENU** to exit the menu.

NOTE

- The **DATA ACQUISITION** indicator on the front of the Media Receiver lights while data is being acquired.

Tuner Setup

Parental Control

With the Parental Control, parents can prevent their children from watching inappropriate TV programs, VCR or DVD contents. When an attempt is made to watch a program (or content) blocked by parents, the Plasma Display shows nothing but a message. The Parental Control functions for both conventional and digital TV channels.

In the U.S. three rating systems have been provided: the TV ratings, TV Parental Guidelines, and movie ratings. Movie ratings are provided by the Motion Picture Association of America (MPAA) and are used for original movies not edited for television.

For the rating system in Canada, see pages 36 and 37.

Voluntary movie rating system (MPAA)

	Rating	Description
	G	General audiences. All ages admitted.
	PG	Parental guidance suggested. Some material may not be suitable for children.
	PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
Age-Base	R	Restricted. Under 17 requires accompanying parent or adult guardian (age varies in some jurisdictions).
	NC-17	No one 17 and under admitted.
	Adult	A rating that has now been superseded by NC-17.
	NR	Not rated.

NOTE

- The voluntary movie rating system only uses an age-based rating.

TV ratings

	Rating	Description
	TV-Y	All children
	TV-Y7	Children 7 and above
Age-Base	TV-G	General audiences
	TV-PG	Parental guidance suggested
	TV-14	Parents strongly cautioned
	TV-MA	Mature audiences only

TV Parental Guidelines

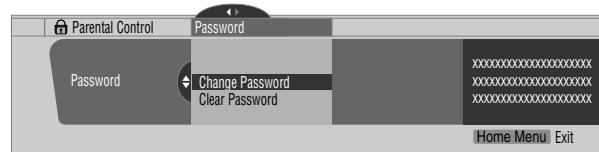
Age-Base	Rating	Content				
		F (Fantasy violence)	V (Violence)	S (Sexual situations)	L (Adult language)	D (Sexually suggestive dialog)
	TV-Y (All children)					
	TV-Y7 (Directed to older children)	X				
	TV-G (General audience)					
	TV-PG (Parental guidance suggested)		X	X	X	X
	TV-14 (Parents strongly cautioned)		X	X	X	X
	TV-MA (Mature audience only)		X	X	X	

X: Content rating can be set.

Changing the password

Using a password prevents other persons from changing Parental Control settings. A default password (1234) has been set before shipment. Use the following procedure to change the password.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Parental Control". (**←/→** then **ENTER**)
- 4 Select "Password". (**↑/↓** then **ENTER**)
- 5 Select "Change Password". (**↑/↓** then **ENTER**)



- 6 Enter the current 4-digit password, using buttons **0 – 9**.
- 7 Enter a 4-digit password to be newly set, using buttons **0 – 9**.
- 8 Enter the same password that you have entered in step 7.
 - A confirmation screen appears.
- 9 Press **A**.
- 10 Press **HOME MENU** to exit the menu.

NOTE

- Take a note of the newly set password and keep it handy.

Clearing the password

Use the following procedure to clear the password.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Parental Control". (**←/→** then **ENTER**)
- 4 Select "Password". (**↑/↓** then **ENTER**)
- 5 Select "Clear Password". (**↑/↓** then **ENTER**)



- 6 Enter the current 4-digit password, using buttons **0 – 9**.
 - A confirmation screen appears.
- 7 Press **A**.
- 8 Press **HOME MENU** to exit the menu.

NOTE

- The above procedure will reset the password to the factory default (1234).

Activating the Parental Control

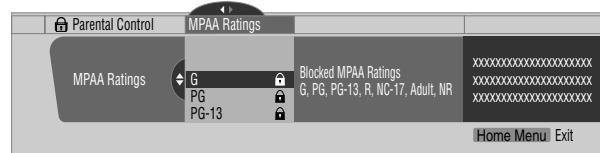
- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Parental Control". (**←/→** then **ENTER**)
- 4 Select "Status". (**↑/↓** then **ENTER**)
- 5 Select "On". (**↑/↓** then **ENTER**)
 - The password entry screen appears. Enter your 4-digit password using buttons **0 – 9**.
- 6 Press **HOME MENU** to exit the menu.

NOTE

- If you select "Off" in step 5, then select "Reset on Startup" or "Don't Reset". With "Reset on Startup" selected, the Parental Control is automatically activated when the power to the system is turned off and on. With "Don't Reset" selected, the Parental Control remains off when the power to the system is off and on.

Setting the voluntary movie rating system (MPAA)

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Parental Control". (**←/→** then **ENTER**)
- 4 Select "MPAA Ratings". (**↑/↓** then **ENTER**)
- 5 Select the desired rating and change the setting. (**↑/↓** then **ENTER**)



- The password entry screen appears. Enter your 4-digit password using buttons **0 – 9**.
- Each time you press **ENTER**, the setting is switched.
- A lock icon appears beside the blocked rating.
- All the ratings have been unblocked before shipment.

- 6 Press **HOME MENU** to exit the menu.

NOTE

- Blocking a rating causes more severe ratings to be automatically blocked as well. Likewise, unblocking a rating causes less severe ratings to be automatically unblocked.

We suggest you write down your password so you don't forget it.

PRO-1120HD/PRO-920HD
Your password No.:

--	--	--	--

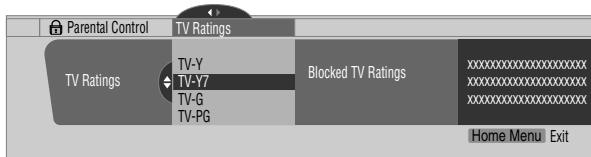
If you forget the password

When the message "Enter your Password" is displayed in step 6 under "Clearing the password", press the **ENTER** button on the remote control unit and hold it down for 3 seconds or longer. The password reverts to "1234".

Tuner Setup

Setting the TV ratings

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (\uparrow/\downarrow then **ENTER**)
- 3 Select "Parental Control". (\leftarrow/\rightarrow then **ENTER**)
- 4 Select "TV Ratings". (\uparrow/\downarrow then **ENTER**)
- 5 Select the desired rating and change the setting. (\uparrow/\downarrow then **ENTER**)



- The password entry screen appears. Enter your 4-digit password using buttons **0 – 9**.
- Each time you press **ENTER**, the setting is switched.
- A lock icon appears beside the blocked rating.
- All the ratings have been unblocked before shipment.

6 Press **HOME MENU** to exit the menu.

6 Press **HOME MENU** to exit the menu.

- Blocking a rating causes more severe ratings to be automatically blocked as well. Likewise, unblocking a rating causes less severe ratings to be automatically unblocked.

Setting the TV Parental Guidelines (TV Guidelines)

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (\uparrow/\downarrow then **ENTER**)
- 3 Select "Parental Control". (\leftarrow/\rightarrow then **ENTER**)
- 4 Select "TV Parental Guidelines". (\uparrow/\downarrow then **ENTER**)
- 5 Select the desired rating and change the setting. (\uparrow/\downarrow then **ENTER**)



- The password entry screen appears. Enter your 4-digit password using buttons **0 – 9**.
- Each time you press **ENTER**, the setting is switched.
- A lock icon appears beside the blocked rating.
- **All the ratings have been unblocked before shipment.**

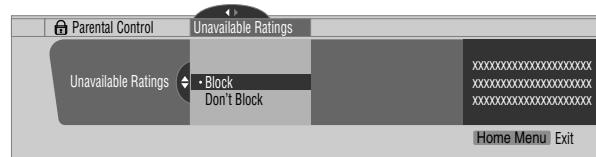
6 Press **HOME MENU** to exit the menu.

- Blocking a rating causes more severe ratings to be automatically blocked as well. Likewise, unblocking a rating causes less severe ratings to be automatically unblocked.

Blocking Not Rated TV programs

Use the following procedure to block TV programs whose rating information is unavailable.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (\uparrow/\downarrow then **ENTER**)
- 3 Select "Parental Control". (\leftarrow/\rightarrow then **ENTER**)
- 4 Select "Unavailable Ratings". (\uparrow/\downarrow then **ENTER**)
- 5 Select "Block" or "Don't Block". (\uparrow/\downarrow then **ENTER**)



- The password entry screen appears. Enter your 4-digit password using buttons **0 – 9**.
- The factory default is “Don’t Block”.

6 Press **HOME MENU** to exit the menu.

Canadian rating systems

In Canada you can choose the Canadian English ratings or the Canadian French ratings. These ratings are based on the Canadian Radio-Television and Telecommunications Commission (CRTC) policy.

Canadian English ratings

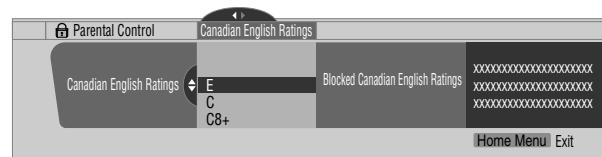
	Rating	Description
	E	Exempt: Includes news, sports, documentaries and other information programming; talk shows, music videos, and variety programming.
	C	Children: Intended for younger children under the age of 8 years. Pays careful attention to themes that could threaten their sense of security and well-being.
	C8+	Children over 8 years old: Contains no portrayal of violence as the preferred, acceptable, or only way to resolve conflict; nor encourage children to imitate dangerous acts which they may see on the screen.
	G	General: Considered acceptable for all age groups. Appropriate viewing for the entire family, contains very little violence, physical, verbal or emotional.
Age-Base	PG	Parental Guidance: Intended for a general audience, but may not be suitable for younger children (under the age of 8) because it could contain controversial themes or issues.
	14+	Over 14 Years: Could contain themes where violence is one of the dominant elements of the storyline, but it must be integral to the development of plot or character. Language usage could be profane and nudity present within the context of the theme.
	18+	Adults: Intended for viewers 18 years and older and might contain depictions of violence, which while related to the development of plot, character or themes, are intended for adult viewing. Could contain graphic language and portrayals of sex and nudity.

Canadian French ratings

	Rating	Description
	E	Exempt programming.
	G	General: All ages and children, contains minimal direct violence, but may be integrated into the plot in a humorous or unrealistic manner.
Age-Base	8ans+	General but inadvisable for young children: May be viewed by a wide public audience, but could contain scenes disturbing to children under eight who cannot distinguish between imaginary and real situations. Recommended for viewing with parent.
	13ans+	Over 13 years: Could contain scenes of frequent violent scenes and therefore recommended for viewing with parent.
	16ans+	Over 16 years: Could contain frequent violent scenes and intense violence.
	18ans+	Over 18 years: Only for adult viewing. Could contain frequent violent scenes and extreme violence.

Setting Canadian English ratings

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Parental Control". (**←/→** then **ENTER**)
- 4 Select "Canadian English Ratings". (**↑/↓** then **ENTER**)
- 5 Select the desired rating and change the setting. (**↑/↓** then **ENTER**)



- The password entry screen appears. Enter your 4-digit password using buttons **0 – 9**.
- Each time you press **ENTER**, the setting is switched.
- A lock icon appears beside the blocked rating.
- All the ratings have been unblocked before shipment.

- 6 Press **HOME MENU** to exit the menu.

Tuner Setup

Setting Canadian French ratings

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Parental Control". (**←/→** then **ENTER**)
- 4 Select "Canadian French Ratings". (**↑/↓** then **ENTER**)
- 5 Select the desired rating and change the setting. (**↑/↓** then **ENTER**)



- The password entry screen appears. Enter your 4-digit password using buttons **0 – 9**.
- Each time you press **ENTER**, the setting is switched.
- A lock icon appears beside the blocked rating.
- All the ratings have been unblocked before shipment.

- 6 Press **HOME MENU** to exit the menu.

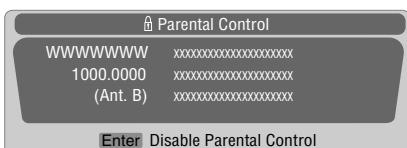
Temporarily deactivating the Parental Control

When the Parental Control is working and censors a blocked TV program (or content), the Plasma Display shows nothing but a message.

The method for temporarily deactivating the Parental Control differs, depending on the currently selected input source.

Antenna A, antenna B, or i.LINK:

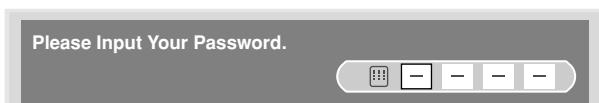
Press **ENTER** and then enter your 4-digit password.



- The password entry screen stays only for one minute. After the screen disappears, pressing **ENTER** causes it to appear again.

Input 1 – 4:

Enter your 4-digit password. You need not press **ENTER** first, pressing **ENTER** causes the password entry screen to disappear.

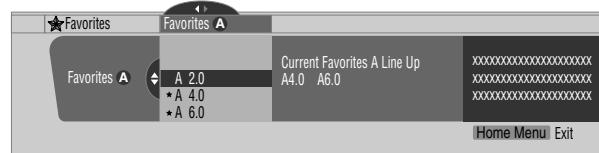


- The above password entry screen will also be shown during 2-screen mode, picture-in-picture, and while freezing an image.
- The password entry screen stays only for one minute. After the screen disappears, pressing **ENTER** causes it to appear again.

Setting your favorite channels

Set up to 10 TV channels to each of the four color buttons on the remote control unit (40 channels in total). You can then quickly select from only your favorite channels.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Favorites". (**←/→** then **ENTER**)
- 4 Select a color button (A, B, C, D). (**↑/↓** then **ENTER**)
- 5 Select a TV channel to be registered. (**↑/↓** then **ENTER**)



- A star appears beside the favorite channels currently selected.
- To register another TV channel under the same color button, repeat step 5. To register another TV channel under a different color button, repeat steps 4 and 5.

- 6 Press **HOME MENU** to exit the menu.

Setting up closed captions

Your Plasma Display System is equipped with an internal closed caption decoder. Closed caption allows you to view conversations, narration, and sound effects in TV programs and home videos as subtitles on your Plasma Display screen.

You may enjoy digital closed captions when watching digital TV programs. Digital closed captions allow you to change parameters such as fonts and colors.

- Not all programs and videos offer closed caption. Please look for the "CC" symbol to ensure that captions will be shown.

Activating the closed caption

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Closed Captions". (**←/→** then **ENTER**)
- 4 Select "Status". (**↑/↓** then **ENTER**)
- 5 Select "On" or "On If Mute". (**↑/↓** then **ENTER**)



Item	Description
Off (factory default)	Does not show closed captions.
On	Always shows closed captions.
On If Mute	Shows closed captions only while sound is being muted.

- 6 Press **HOME MENU** to exit the menu.

NOTE

- For MONITOR OUT, only conventional closed caption signals are output; digital closed caption signals are not output.

Selecting the type of conventional closed captions

Select the type of conventional closed captions that you will watch after tuning to a conventional TV channel. This selection also becomes effective when a selected digital TV program provides only conventional closed captions.

- "CC1", "CC2", "CC3", or "CC4" displays subtitles of TV dramas and news programs while allowing a full view of the picture.
- "Text1", "Text2", "Text3", or "Text4" superimposes on the picture other information (e.g. TV guide, weather) that is independent of the TV in progress.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Closed Captions". (**←/→** then **ENTER**)
- 4 Select "Analog Settings". (**↑/↓** then **ENTER**)
- 5 Select the desired closed caption. (**↑/↓** then **ENTER**)



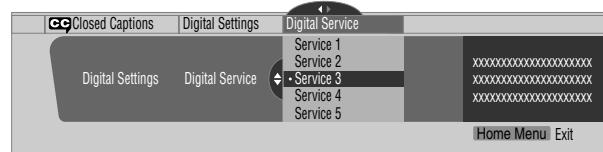
- The factory default is "CC1".

- 6 Press **HOME MENU** to exit the menu.

Selecting digital closed captions

Use the following procedure to select digital closed captions.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Closed Captions". (**←/→** then **ENTER**)
- 4 Select "Digital Settings". (**↑/↓** then **ENTER**)
- 5 Select "Digital Service". (**↑/↓** then **ENTER**)
- 6 Select the desired closed caption. (**↑/↓** then **ENTER**)



- The factory default is "Service 1".

- 7 Press **HOME MENU** to exit the menu.

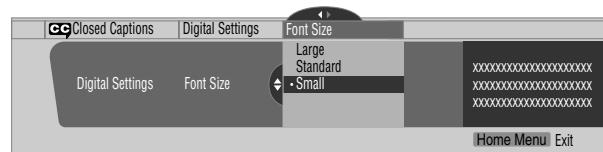
NOTE

- The Primary Caption Service is usually offered for Service 1, and the Secondary Language Service is usually offered for Service 2 if these services are available.

Selecting digital closed caption parameters

Use the following procedure to change such parameters of digital closed captions as font size, font type, foreground and background colors.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Closed Captions". (**←/→** then **ENTER**)
- 4 Select "Digital Settings". (**↑/↓** then **ENTER**)
- 5 Select "Font Size", "Font", or any other item. (**↑/↓** then **ENTER**)
- 6 Select the desired parameter. (**↑/↓** then **ENTER**)



- 7 Repeat steps 5 and 6 as necessary. (**←, ↑/↓**)

- 8 Press **HOME MENU** to exit the menu.

Tuner Setup

The following table shows the parameters selectable for each item.

Item	Selection
Font Size	Auto/ Large/ Standard/ Small
Font ¹	Auto/ Font 1/ Font 2/ Font 3 / Font 4/ Font 5/ Font 6/ Font 7
Font Color	Auto/ Black/ White / Red/ Green/ Blue/ Yellow/ Magenta/ Cyan
Font Opacity	Auto/ Solid / Transparent/ Translucent/ Flashing
Background Color	Auto/ Black / White/ Red/ Green/ Blue/ Yellow/ Magenta/ Cyan
Background Opacity	Auto/ Solid / Transparent/ Translucent

¹ Font 1 (monospaced with serifs)/ Font 2 (proportionally spaced with serifs)/ Font 3 (monospaced without serifs)/ Font 4 (proportionally spaced without serifs)/ Font 5 (casual font)/ Font 6 (cursive font)/ Font 7 (small capitals font)

With "Auto" selected, parameters specified by the provider are used; if not specified by the provider, the bolded default parameters are used. If you select parameters other than "Auto", the selected parameters are used regardless of provider's specifications.

Clock Setting

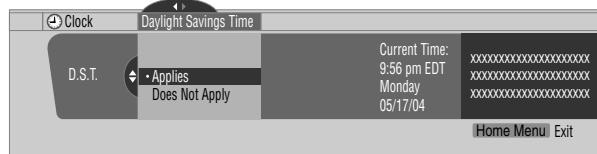
With "Auto Set" selected for Clock Setting, the system acquires and sets time information automatically. You can also manually set the correct time. If you disconnect the power cord from the power outlet or power blackout occurs, the set time is cleared.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Clock". (**←/→** then **ENTER**)
- 4 Select "Time Zone". (**↑/↓** then **ENTER**)
- 5 Select a time zone for your area. (**↑/↓** then **ENTER**)

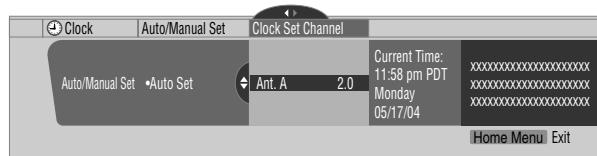


- 6 Select "D.S.T." (**←, ↑/↓**, then **ENTER**)

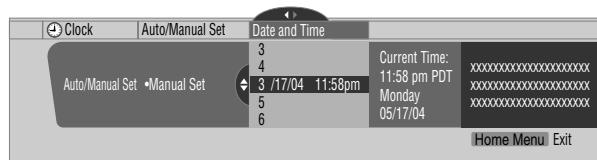
- 7 Select "Applies" or "Does Not Apply". (**↑/↓** then **ENTER**)
- Make this selection, depending on whether summer time is employed in your area.



- 8 Select "Auto/Manual Set". (**←, ↑/↓**, then **ENTER**)
- 9 Select "Auto Set" or "Manual Set". (**↑/↓** then **ENTER**)
- 10 If you select "Auto Set", select an antenna (A or B) and a channel number using **↑/↓** and **ENTER**.



- The date and time will be automatically corrected using data from the selected channel.
- If you select "Manual Set", manually set the date and time using **↑/↓**, **←/→** and **ENTER**.



- 11 Press **HOME MENU** to exit the menu.

NOTE

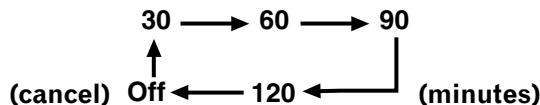
- When the time has not been set, the REC TIMER indicator on the front of the Media Receiver blinks.
- When the time has not yet been set, you cannot view channel banner information, use auto channel select, and preset TV programs for recording.

Sleep Timer

When the selected time elapses, the Sleep Timer automatically places the system into the standby mode.

Press **SLEEP** to select the desired time.

- The timer starts counting.
- Each time you press **SLEEP**, the selection is switched as below:



- The factory default is "Off".

NOTE

- To cancel the Sleep Timer, select "Off" by pressing **SLEEP**.
- Five minutes before the selected time elapses, the remaining time appears every minute.

You can also use the menu to set the Sleep Timer.

- 1 Press **HOME MENU**.
- 2 Select "Sleep Timer". (\uparrow/\downarrow then **ENTER**)
- 3 Select the desired time. (\uparrow/\downarrow then **ENTER**)
- 4 Press **HOME MENU** to exit the menu.

AV Selection

Select from the five viewing options, depending on the current environment (e.g., room brightness), the type of the current TV program, or the type of images input from external equipment.

- 1 Press **AV SELECTION**.
 - The current AV Selection mode appears.
- 2 Press **AV SELECTION** again before the displayed mode disappears.
 - For AV source, the mode is switched in the order; STANDARD, DYNAMIC, MOVIE, GAME, then USER.
 - For PC source, the mode is switched between STANDARD and USER.

You can also use the menu to change the options.

- 1 Press **HOME MENU**.
- 2 Select "Picture". (\uparrow/\downarrow then **ENTER**)
- 3 Select "AV Selection". (\uparrow/\downarrow then **ENTER**)
- 4 Select the desired option. (\uparrow/\downarrow then **ENTER**)



For AV source

Item	Description
STANDARD	For a highly defined image in a normally bright room
DYNAMIC	For a very sharp image with the maximum contrast This mode does not allow manual image quality adjustment.
MOVIE	For a movie
GAME	Lowers image brightness for easier viewing.
USER	Allows the user to customize settings as desired. You can set the mode for each input source.

For PC source

Item	Description
STANDARD (factory default)	For a highly defined image in a normally bright room
USER	Allows the user to customize settings as desired. You can set the mode for each input source.

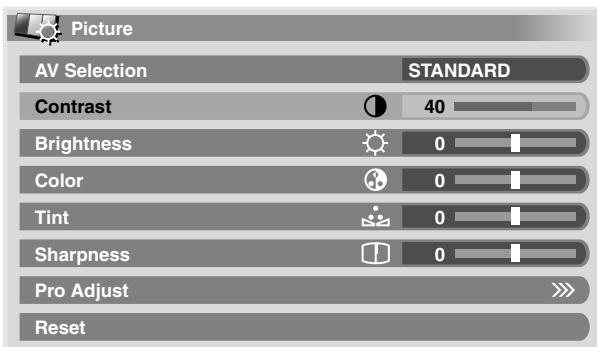
- 5 Press **HOME MENU** to exit the menu.

Adjustments and Settings

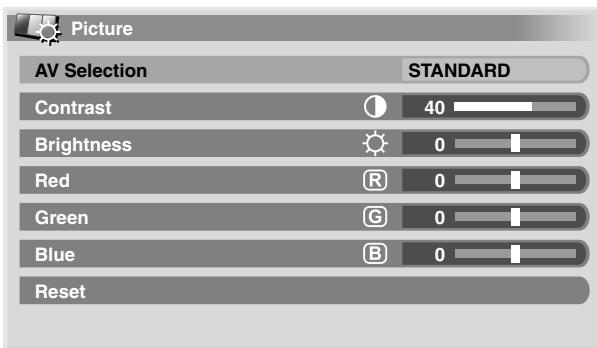
Picture adjustments

Adjust the picture to your preference for the chosen AV Selection option (except DYNAMIC).

- 1 Press **HOME MENU**.
- 2 Select "Picture". (**↑/↓** then **ENTER**)
- 3 Select an item to be adjusted. (**↑/↓** then **ENTER**)



For PC source, the following screen appears:



- 4 Select the desired level. (**←/→** then **ENTER**)



- When an adjustment screen is in display, you can also change an item to be adjusted, by pressing **↑/↓**.

- 5 Press **HOME MENU** to exit the menu.

For AV source

Item	← button	→ button
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Color	For less color intensity	For more color intensity
Tint	Skin tones become purplish	Skin tones become greenish
Sharpness	For less sharpness	For more sharpness

For PC source

Item	← button	→ button
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Red	For weaker red	For stronger red
Green	For weaker green	For stronger green
Blue	For weaker blue	For stronger blue

NOTE

- To make settings for "PureCinema", "Color Temp", "MPEG NR", "DNR", "CTI", and "DRE", select "Pro Adjust" in step 3, and then press **ENTER**. For the subsequent procedures, see "Pro Adjust".
- To restore the factory defaults for all the items, press **↑/↓** to select "Reset" in step 3, and then press **ENTER**. A confirmation screen appears. Press **↑/↓** to select "Yes", and then press **ENTER**.

Pro Adjust

This system provides various advanced functions for optimizing the picture quality.

- 1 Press **HOME MENU**.
- 2 Select "Picture". (**↑/↓** then **ENTER**)
- 3 Select "Pro Adjust". (**↑/↓** then **ENTER**)
- 4 Select an item to be adjusted. (**↑/↓** then **ENTER**)
 - You can select "PureCinema", "Color Temp", "MPEG NR", "DNR", "CTI", or "DRE".
- 5 Select the desired parameter. (**↑/↓** then **ENTER**)
 - For the selectable parameters, see the table.

PureCinema

Automatically detects a film-based source (originally encoded at 24 frames/second), analyzes it, then recreates each still film frame for high-definition picture quality.

Selections	Off	Deactivates the PureCinema.
	Standard	Produces smooth and vivid moving images (film specific) by automatically detecting recorded image information when displaying DVD or 1080i HDTV images (e.g., movies) having 24 frames per second.
	ADV	Produces smooth and quality moving images (as shown on theater screens) by converting to 72 Hz when displaying DVD images (e.g., movies) having 24 frames per second.
Remark	You cannot select "Standard" when 480p or 720p signals are being input.	

Color Temp

Adjusts the color temperature, resulting in a better white balance.

Selections	High	White with bluish tone
	Mid-High	Intermediate tone between High and Mid
	Mid	Natural tone
	Mid-Low	Intermediate tone between High and Low
	Low	White with reddish tone
	Mid-Low	
	Manual	Allows you to manually adjust the color temperature. Use the following procedure.

- ① Select "Manual", and then press and hold **ENTER** for more than three seconds to display the manual adjustment screen.
- ② Select an item to be adjusted. (**↑/↓** then **ENTER**)
- ③ Select the desired level. (**←/→** then **ENTER**)

Item	← button	→ button
R High	For weaker red	For stronger red
G High	For weaker green	For stronger green
B High	For weaker blue	For stronger blue
R Low	For weaker red	For stronger red
G Low	For weaker green	For stronger green
B Low	For weaker blue	For stronger blue

- To perform adjustment for another item, press **RETURN**, and then repeat steps ② and ③.
- You may press **↑/↓** to immediately change an item to be adjusted.

- ④ Press **HOME MENU** to exit the menu.

MPEG NR

Eliminates mosquito noise from video images when a digital TV channel is watched or a DVD is played, resulting in noise-free images.

Selections	Off	Deactivates the MPEG NR.
	High	Enhanced MPEG NR
	Mid	Standard MPEG NR
	Low	Moderate MPEG NR

DNR

Eliminates video noise for clean crisp images. The DNR stands for Digital Noise Reduction.

Selections	Off	Deactivates the DNR.
	High	Enhanced DNR
	Mid	Standard DNR
	Low	Moderate DNR

CTI

Provides images with clearer color contours. The CTI stands for Color Transient Improvement.

Selections	Off	Deactivates the CTI.
	On	Activates the CTI.

DRE

Adjusts dark and bright portions on images so that the contrast between brightness and darkness becomes clearer.

Selections	Off	Deactivates the DRE.
	High	Enhanced DRE
	Mid	Standard DRE
	Low	Moderate DRE

Color Management

Adjusts the hue for each basic color. Use the following procedure.

- ① Select an item to be adjusted. (**↑/↓** then **ENTER**)
- ② Select the desired level. (**←/→**)

Item	← button	→ button
Red	Closer to magenta	Closer to yellow
Yellow	Closer to red	Closer to green
Green	Closer to yellow	Closer to cyan
Cyan	Closer to green	Closer to blue
Blue	Closer to cyan	Closer to magenta
Magenta	Closer to blue	Closer to red

- To perform adjustment for another item, press **RETURN**, and then repeat steps 1 and 2.
- You may press **↑/↓** to immediately change an item to be adjusted.

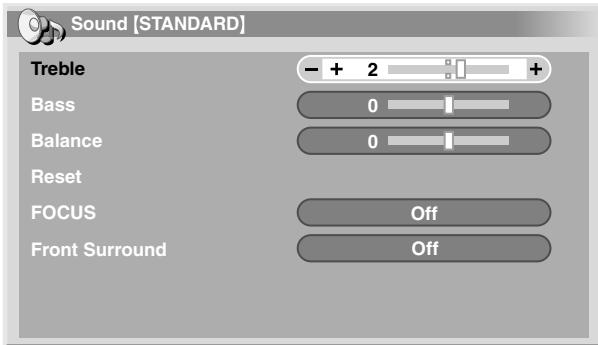
- ③ Press **HOME MENU** to exit the menu.

Adjustments and Settings

Sound adjustments

Adjust the sound to your preference for the chosen AV Selection option. See page 40.

- 1 Press **HOME MENU**.
- 2 Select "Sound". (\uparrow/\downarrow then **ENTER**)
- 3 Select an item to be adjusted. (\uparrow/\downarrow)
- 4 Select the desired level. (\leftarrow/\rightarrow)



Item	\leftarrow button	\rightarrow button
Treble	For weaker treble	For stronger treble
Bass	For weaker bass	For stronger bass
Balance	Decreases audio from the right speaker	Decreases audio from the left speaker

- 5 Press **HOME MENU** to exit the menu.

NOTE

- To restore the factory defaults for all the items, press \uparrow/\downarrow to select "Reset" in step 3, and then press **ENTER**. A confirmation screen appears. Press \uparrow/\downarrow to select "Yes", and then press **ENTER**.

FOCUS

This shifts the sound coming direction (sound images) upward and produces clear sound contours.

- 1 Press **HOME MENU**.
- 2 Select "Sound". (\uparrow/\downarrow then **ENTER**)
- 3 Select "FOCUS". (\uparrow/\downarrow)
- 4 Select the desired parameter. (\leftarrow/\rightarrow)

Item	Description
Off (factory default)	Deactivates the FOCUS.
On	Activates the FOCUS.

- 5 Press **HOME MENU** to exit the menu.

Front Surround

This provides three-dimensional sound effects and/or deep, rich bass.

- 1 Press **HOME MENU**.
- 2 Select "Sound". (\uparrow/\downarrow then **ENTER**)
- 3 Select "Front Surround". (\uparrow/\downarrow)
- 4 Select the desired parameter. (\leftarrow/\rightarrow)

Item	Description
Off	Deactivates both the SRS and TruBass.
SRS	Reproduces highly effective three-dimensional sound.
TruBass (factory default)	Provides deep, rich bass using a new technology.
TruBass + SRS	Provides both TruBass and SRS effects.

- 5 Press **HOME MENU** to exit the menu.

NOTE

- (WOW) designates a status where the FOCUS is on and TruBass + SRS has been selected for Front Surround.
- is a trademark of SRS Labs, Inc.
- WOW technology is incorporated under license from SRS Labs, Inc.

Power Control

Power Control provides convenient functions for power saving.

Energy Save

You can save power consumption by decreasing the picture brightness. When you need not watch the screen and want to enjoy only audio, you can also deactivate the screen.

- 1 Press **HOME MENU**.
- 2 Select "Power Control". (\uparrow/\downarrow then **ENTER**)
- 3 Select "Energy Save". (\uparrow/\downarrow then **ENTER**)
- 4 Select "Save" or "Picture Off". (\uparrow/\downarrow then **ENTER**)

Item	Description
Standard (factory default)	Does not decrease picture brightness.
Save	Decreases picture brightness to save power.
Picture Off	Deactivates the screen to save power. To restore the screen display, press any button other than VOL +/- and MUTING . This setting is not memorized by the system.

- 5 Press **HOME MENU** to exit the menu.

NOTE

- You can also select this function using the Home menu when the input source is a PC.

No Signal off (AV mode only)

The system will be automatically placed into the standby mode if no signal is received for 15 minutes.

- 1 Press **HOME MENU**.
- 2 Select "Power Control". (\uparrow/\downarrow then **ENTER**)
- 3 Select "No Signal off". (\uparrow/\downarrow then **ENTER**)
- 4 Select "Enable". (\uparrow/\downarrow then **ENTER**)

Item	Description
Disable (factory default)	Does not place the system into the standby mode.
Enable	Places the system into the standby mode if no signal is received for 15 minutes.

- 5 Press **HOME MENU** to exit the menu.

NOTE

- Five minutes before the system is placed into the standby mode, a message appears every minute.
- The system may not be placed into the standby mode when noise signals are present at the Media Receiver after a TV program finishes.

No Operation off (AV mode only)

The system will be automatically placed into the standby mode when no operation is performed for three hours.

- 1 Press **HOME MENU**.
- 2 Select "Power Control". (\uparrow/\downarrow then **ENTER**)
- 3 Select "No Operation off". (\uparrow/\downarrow then **ENTER**)
- 4 Select "Enable". (\uparrow/\downarrow then **ENTER**)

Item	Description
Disable (factory default)	Does not place the system into the standby mode.
Enable	Places the system into the standby mode if no operation is performed for three hours.

- 5 Press **HOME MENU** to exit the menu.

NOTE

- Five minutes before the system is placed into the standby mode, a message appears every minute.

Power Management (PC mode only)

The system will be automatically placed into the standby mode when no signal is received from the personal computer.

- 1 Press **HOME MENU**.
- 2 Select "Power Control". (\uparrow/\downarrow then **ENTER**)
- 3 Select "Power Management". (\uparrow/\downarrow then **ENTER**)
- 4 Select "Mode1" or "Mode2". (\uparrow/\downarrow then **ENTER**)

Item	Description
Off (factory default)	No power management
Mode1	<ul style="list-style-type: none"> • Places the system into the standby mode when no signal is received from the personal computer for eight minutes. • Even when you start using the computer and a signal is received again, the system stays off. • The system is switched on again by pressing STANDBY/ON on the Plasma Display or TV  on the remote control unit.
Mode2	<ul style="list-style-type: none"> • Places the system into the standby mode when no signal is received for eight seconds. • When you start using the computer and a signal is received again, the system is switched on. • The system is switched on again by pressing STANDBY/ON on the Plasma Display or TV  on the remote control unit.

- 5 Press **HOME MENU** to exit the menu.

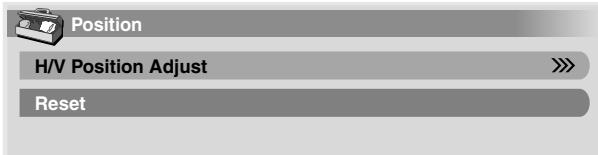
Adjustments and Settings

Adjusting image positions

(AV mode only)

Adjust the horizontal and vertical positions of images on the Plasma Display.

- 1 Press **HOME MENU**.
- 2 Select "Option". (**↑/↓** then **ENTER**)
- 3 Select "Position". (**↑/↓** then **ENTER**)
- 4 Select "H/V Position Adjust". (**↑/↓** then **ENTER**)



- 5 Adjust the vertical position (**↑/↓**) or horizontal position (**←/→**).
- 6 Press **HOME MENU** to exit the menu.

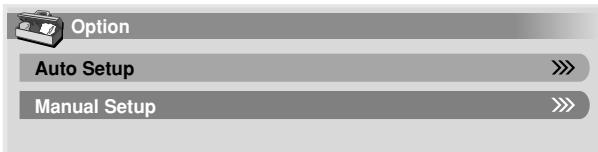
NOTE

- To restore the factory defaults for all the items, press **↑/↓** to select "Reset" in step 4, and then press **ENTER**. A confirmation screen appears. Press **↑/↓** to select "Yes", and then press **ENTER**.
- Adjustments are stored separately according to input source.

Adjusting image positions and clock automatically (PC mode only)

Use Auto Setup to automatically adjust positions and clock of images coming from a personal computer.

- 1 Press **HOME MENU**.
- 2 Select "Option". (**↑/↓** then **ENTER**)
- 3 Select "Auto Setup". (**↑/↓** then **ENTER**)



- Auto Setup starts.
- 4 Press **HOME MENU** to exit the menu.

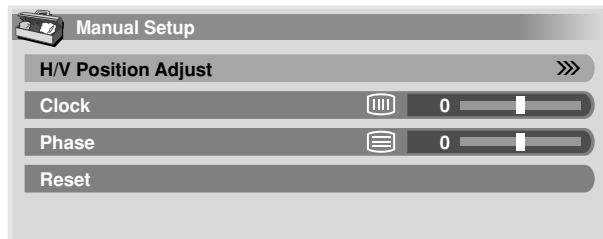
NOTE

- When Auto Setup is finished, "Auto Setup completed." appears.
- Even when "Auto Setup completed." appears, Auto Setup may have failed, depending on conditions.
- Auto Setup may fail with a PC image composed of similar patterns or monochrome. If not successful, change the PC image and try again.
- Be sure to connect the computer to the Media Receiver and switch it on before starting Auto Setup.

Adjusting image positions and clock manually (PC mode only)

Usually you can easily adjust the positions and clock of images using Auto Setup. Use Manual Setup to optimize the positions and clock of images when necessary.

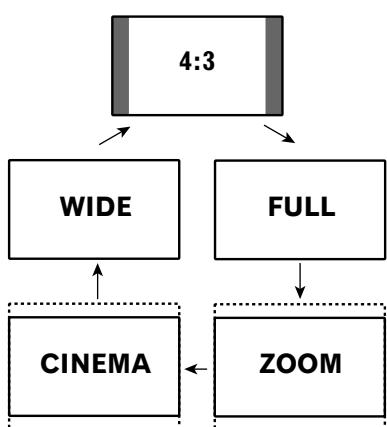
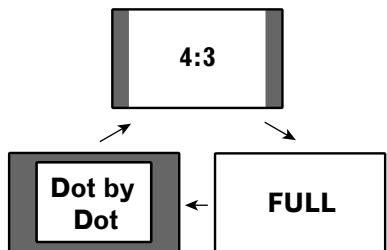
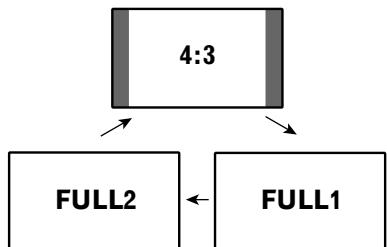
- 1 Press **HOME MENU**.
- 2 Select "Option". (**↑/↓** then **ENTER**)
- 3 Select "Manual Setup". (**↑/↓** then **ENTER**)
- 4 Select an item to be adjusted. (**↑/↓** then **ENTER**)



- 5 Perform adjustment. (**←/→** and **↑/↓**)
 - Use **↑/↓** only when you adjust the vertical position after selecting "H/V Position Adjust".
- 6 Press **HOME MENU** to exit the menu.

NOTE

- To restore the factory defaults for all the items, press **↑/↓** to select "Reset" in step 4, and then press **ENTER**. A confirmation screen appears. Press **↑/↓** to select "Yes", and then press **ENTER**.

AV mode**PC mode except for XGA signals****PC mode for XGA signals****Selecting a screen size**

In single-screen mode, press **SCREEN SIZE** to change the size of the screen from among the selectable options for the type of video signals currently received.

- The selectable screen sizes differ depending on the types of input signals.

AV mode

Item	Description
4:3	For 4:3 "standard" pictures. A side bar appears on each side.
FULL	For 16:9 squeeze pictures.
ZOOM	For 16:9 letterbox pictures. Bars may appear on the top and bottom with some programs.
CINEMA	For 14:9 letterbox pictures. Bars may appear on the top and bottom on some programs.
WIDE	In this mode pictures are progressively stretched toward each side of the screen.

PC mode except for XGA signals

Item	Description
4:3	Fills the screen without altering the input signal aspect ratio.
FULL	Full 16:9 screen display
Dot by Dot	Matches input signal with same number of screen pixels.

PC mode for XGA signals

(Ex. 1024 × 768 input at PRO-1120HD)

Item	Description
4:3	Matches input signal with the same number of screen pixels. Optimized for 1024 × 768 display
FULL1	Full 16:9 screen display Optimized for 1024 × 768 display
FULL2	For wide signal display Use when displaying 1280 × 768 signal resolution.

NOTE

- In 2-screen mode, press **SCREEN SIZE** to change the size of left screen.
- The PC mode above is for the PRO-1120HD. For the PRO-920HD the number of panel pixels is different, so signal processing and actual viewing conditions will vary slightly.
- While watching High Definition TV broadcasting, pressing **SCREEN SIZE** switches between FULL and WIDE.
- If you watch High Definition TV broadcasting with WIDE selected, part of the screen (e.g., images, graphic interface) can be missed. If this is the case, select FULL.

Adjustments and Settings

Changing the brightness at both sides of the screen (Side Mask)

With the 4:3 screen size selected for the AV mode, you can change the brightness of the gray side masks that appear at both sides of the screen.

- 1 Press **HOME MENU**.
- 2 Select “Option”. (**↑/↓** then **ENTER**)
- 3 Select “Side Mask”. (**↑/↓** then **ENTER**)
- 4 Select the desired parameter. (**↑/↓** then **ENTER**)

Item	Description
Fixed (factory default)	Always sets the same brightness for the gray side masks.
Auto	Adjusts the brightness of the gray side masks according to the brightness of images.

- 5 Press **HOME MENU** to exit the menu.

Language setting

You can select a language to be used for on-screen display such as menus from among three languages: English, French, and Spanish.

- 1 Press **HOME MENU**.
- 2 Select “Option”. (**↑/↓** then **ENTER**)
- 3 Select “Language”. (**↑/↓** then **ENTER**)
- 4 Select a language. (**←/→**)



- 5 Press **HOME MENU** to exit the menu.

Presetting TV programs using the timer

Using the menu, you can easily preset TV programs for watching later (auto channel select), recording with a D-VHS recorder, or recording via the supplied VCR controller.

With the power to the system left on, the Auto Channel Preset automatically selects the preset TV program when its on-air time comes. Then you will not miss an important TV program when you are enjoying another TV program.

For the connections with a D-VHS recorder, see pages 54 and 55. For the connections with the supplied VCR controller, see page 59.

NOTE

- You can make up to 32 presettings in total.
- In steps 4 to 8, you can also press **◀/▶** to move the cursor.

1 Press **HOME MENU**.

2 Select "Timers". (**↑/↓** then **ENTER**)

3 Select a list number. (**↑/↓** then **ENTER**)

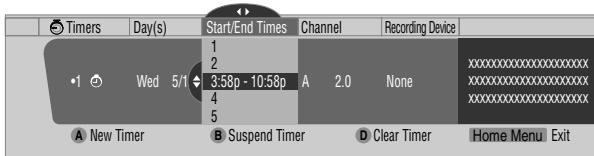


4 Specify a date. (**↑/↓** then **ENTER**)

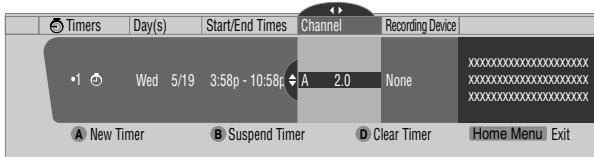
- The selections include the days of the week (e.g., Mondays), "Weekdays", "Weekends", and "Everyday". Selecting one of these will cause the timer to activate periodically.



5 Specify the start and end times. (**↑/↓** then **ENTER** for each field)



6 Select antenna A or B. (**↑/↓** then **ENTER**)



7 Specify a channel number. (**↑/↓** then **ENTER** for each digit)



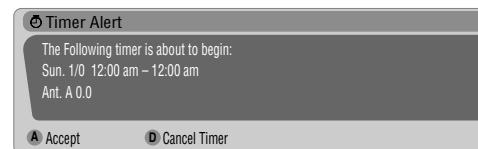
8 Select a recording device. (**↑/↓** then **ENTER**)

- To preset for auto channel select, select "None".



9 Press **HOME MENU** to exit the menu.

An alarm screen appears slightly before the preset timer is activated. If watching a TV channel through antenna A or B in a single-screen mode, the screen allows you to cancel the presetting by pressing **D**.



The icons beside the list numbers have the following meanings.

Icon	Meaning
	Preset for recording; no conflicts with other timers exist.
	Preset for auto channel select; no conflicts with other timers exist.
	Preset for recording; conflicts with other timers exist.
	Preset for auto channel select; conflicts with other timers exist.
	Preset for recording; the timer start has been delayed.
	Preset for auto channel select; the timer start has been delayed.

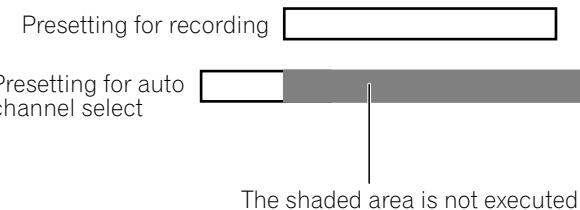
 **NOTE**

- If you set a timer to record a future digital program on a VCR, you must first turn off Parental Control. Otherwise, you will record only a black screen. See "Temporarily deactivating the Parental Control" on page 37.
- To change the TV program presetting, repeat the above procedure. To cancel the presetting, press **D** after selecting a list number in step 4.
- Switch on the recording equipment at least 30 seconds before the start of the preset program; otherwise recording will not be executed.
- When presetting for recording, finish the operations two minutes (one minute for auto channel select) before the start of the program; otherwise presetting may fail.
- Auto channel select is not executed when the system is in the standby mode.
- Recording is not executed if recordable D-VHS tape is not present in the D-VHS recorder when the preset program starts. This is also true when a specified D-VHS recorder is not in connection.
- For recording with a VCR, confirm that the video output terminals on the Media Receiver have been connected to the signal input terminals on the VCR.
- Presettings become ineffective if the start time and the end time are identical.

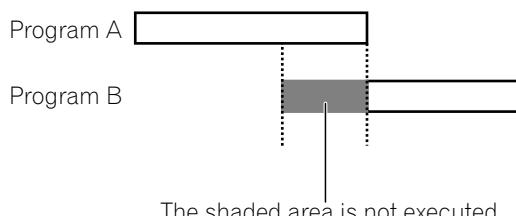
Priority rules for overlapped presettings

When preset TV programs are overlapped, the following three rules are used to determine a higher priority. If more than one of the three rules are met, the rules are applied in the order; 1, 2, then 3.

Rule 1: Presetting for recording is given a higher priority over presetting for auto channel select.



Rule 2: If two presettings are overlapped, presetting with earlier start time is given a higher priority. If two presettings are sequential, the last portion of the first program may not be recorded for 60 seconds (or less) because recording of the second program is started at the exact start time.



Rule 3: If presettings at the same start time are overlapped, presetting with a higher list number is given a higher priority.

You can connect many types of external equipment to your Plasma Display System, like a DVD player, VCR, personal computer, game console, and camcorder.

To view images coming from external equipment, select the input source using the **INPUT** buttons on the remote control (page 14) or the **INPUT** button on the Plasma Display.

⚠ CAUTION

- To protect all equipment, always turn off the system before connecting to a DVD player, VCR, personal computer, game console, camcorder, or other external equipment.

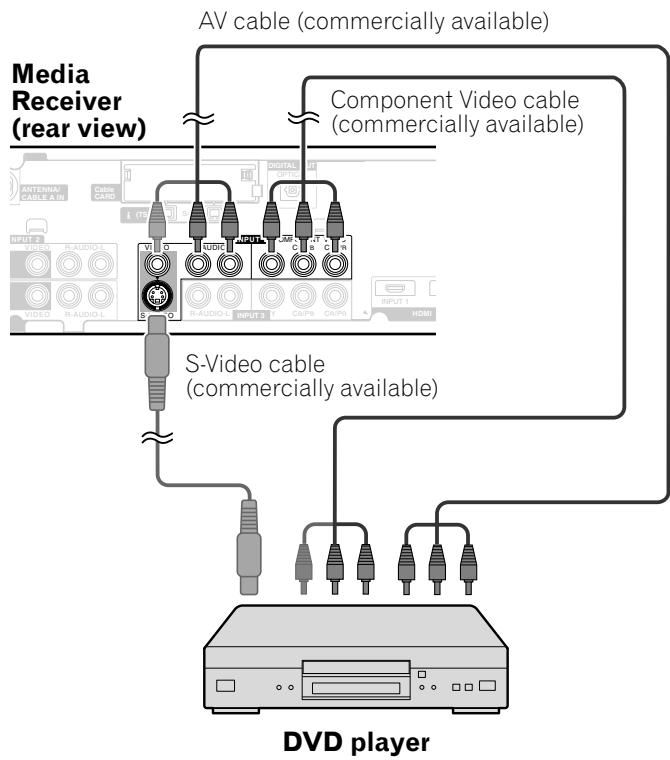
📝 NOTE

- Refer to the relevant instruction manual (DVD player, personal computer, etc.) carefully before making connections.

Watching a DVD image

Connecting a DVD player

Use the INPUT 1 terminals when connecting a DVD player and other audiovisual equipment.



Displaying a DVD image

To watch a DVD image, press **INPUT 1** on the remote control unit or press **INPUT** on the Plasma Display to select INPUT1.

📝 NOTE

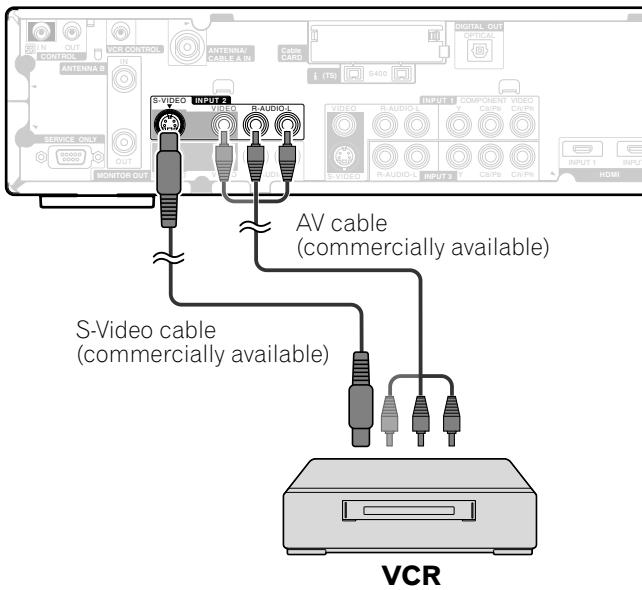
- Refer to your DVD player instruction manual for the signal type.
- The INPUT 1 terminals are checked for cable connections in the order where; 1) Component Video, 2) S-Video, 3) Video.
- Connect external equipment to only terminals that are to be actually used.
- You can also use the INPUT 3 terminals when connecting only with the Component Video output terminals on a DVD player.

Watching a VCR image

Connecting a VCR

Use the INPUT 2 terminals when connecting a VCR and other audiovisual equipment.

Media Receiver (rear view)



Displaying a VCR image

To watch a VCR image, press **INPUT 2** on the remote control unit or press **INPUT** on the Plasma Display to select INPUT2.

📝 NOTE

- The INPUT 2 terminals are checked for cable connections in the order where; 1) S-Video, 2) Video.
- Connect external equipment to only terminals that are to be actually used.

Enjoying through External Equipment

Using HDMI Input

The INPUT 1 and INPUT 3 terminals include HDMI terminals to which digital video and audio signals can be input. To use the HDMI terminal, activate the terminal and specify the types of video and audio signals to be received from the connected equipment. For the types of these signals, see the operation manual that came with the connected equipment.

Before starting the menu, press **INPUT 1** (or **INPUT 3**) on the remote control unit or press **INPUT** on the Plasma Display to select INPUT 1 (or INPUT 3).

Input signal correlation table

1920*1080i@59.94/60Hz

720*480p@59.94/60Hz

1280*720p@59.94/60Hz

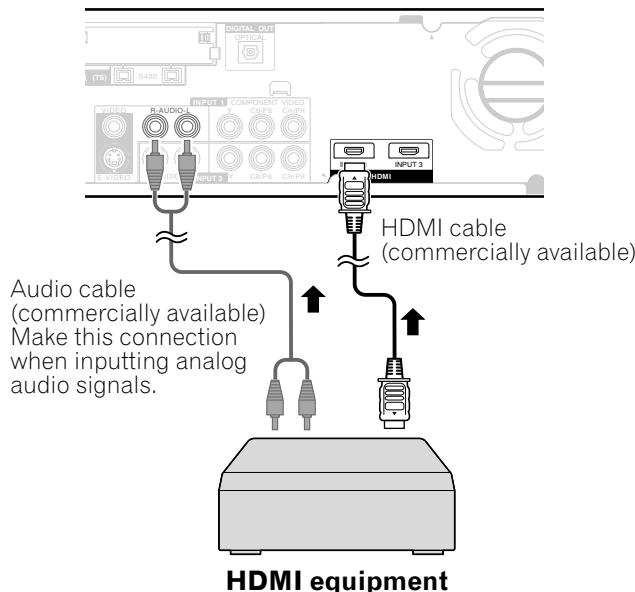
720(1440)*480i@59.94/60Hz

NOTE

- PC signals are not supported.

Connecting HDMI equipment

Media Receiver (rear view)



To activate the HDMI terminal:

- 1 Press **HOME MENU**.
- 2 Select "Option". (**↑/↓** then **ENTER**)
- 3 Select "HDMI Input". (**↑/↓** then **ENTER**)
- 4 Select "Setting". (**↑/↓** then **ENTER**)
- 5 Select "Enable". (**↑/↓** then **ENTER**)

Item	Description
Disable (factory default)	Deactivates the HDMI terminal.
Enable	Activates the HDMI terminal.

- 6 Press **HOME MENU** to exit the menu.

To specify the type of digital video signals:

- 1 Press **HOME MENU**.
- 2 Select "Option". (**↑/↓** then **ENTER**)
- 3 Select "HDMI Input". (**↑/↓** then **ENTER**)
- 4 Select "Video". (**↑/↓** then **ENTER**)
- 5 Select the type of digital video signals. (**↑/↓** then **ENTER**)
 - If you select "Auto", an attempt will be made to identify the type of digital video signals when digital video signals are received.

Item	Description
Auto (factory default)	Automatically identifies input digital video signals.
Color-1	Digital Component Video signals (4:2:2) locked
Color-2	Digital Component Video signals (4:4:4) locked
Color-3	Digital RGB signals locked

- 6 Press **HOME MENU** to exit the menu.

NOTE

- If you select a parameter other than "Auto", make such a setting that results in natural color.
- If no image appears, specify another digital video signal type.
- For the digital video signal types to be specified, check the operation manual that came with the connected equipment.

To specify the type of audio signals:

- 1 Press **HOME MENU**.
- 2 Select "Option". (**↑/↓** then **ENTER**)
- 3 Select "HDMI Input". (**↑/↓** then **ENTER**)
- 4 Select "Audio". (**↑/↓** then **ENTER**)
- 5 Select the type of audio signals. (**↑/↓** then **ENTER**)
 - If you select "Auto", an attempt will be made to identify the type of audio signals when audio signals are received.

Item	Description
Auto (factory default)	Automatically identifies input audio signals.
Digital	Accepts digital audio signals.
Analog	Accepts analog audio signals.

6 Press **HOME MENU** to exit the menu.

NOTE

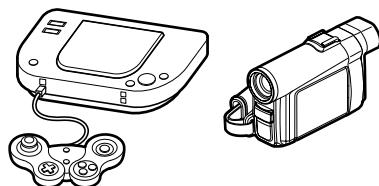
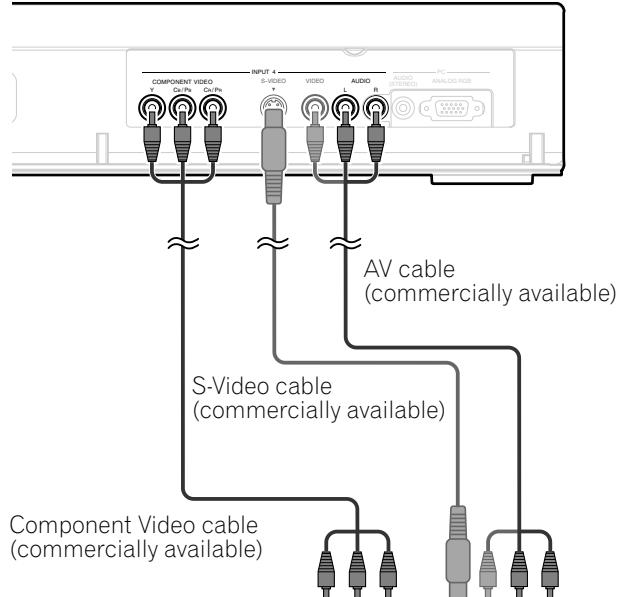
- If no sound is output, specify another audio signal type.
- For the audio signal types to be specified, check the operation manual that came with the connected equipment.
- Depending on the equipment to be connected, you also need to connect analog audio cables.

Enjoying a game console or watching camcorder images

Connecting a game console or camcorder

Use the INPUT 4 terminals to connect a game console, camcorder and other audiovisual equipment.

Media Receiver (front view)



Game console/Camcorder

NOTE

- The INPUT 4 terminals are checked for cable connections in the order where; 1) Component Video, 2) S-Video, 3) Video.
- Connect external equipment to only terminals that are to be actually used.

Displaying an image of the game console or camcorder

To watch an image coming from the game console or camcorder, press **INPUT 4** on the remote control unit or press **INPUT** on the Plasma Display to select INPUT4.

Recording digital TV programs using a VCR or DVD recorder

If you connect recording equipment such as a VCR or DVD recorder to the MONITOR OUT terminals on the rear of the Media Receiver, you can record, for example, digital TV programs using the recording equipment.

You can also record digital TV programs more easily by using the supplied VCR controller. Connect the VCR controller to the VCR control terminal on the rear of the Media Receiver and then position the controller so that its light emitting section faces the remote control sensor on the recording equipment. For more information, see page 59.

Avoiding unwanted feedback

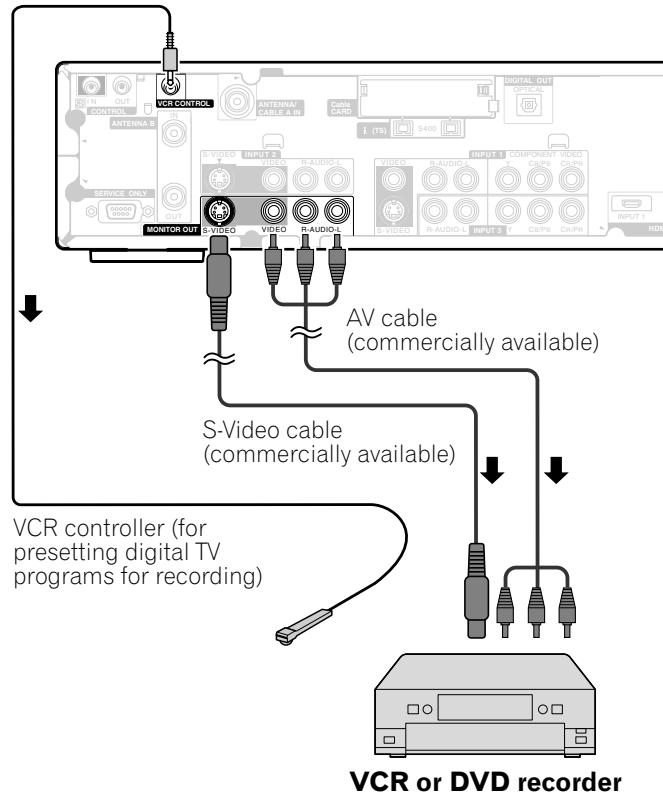
You can prevent unwanted feedback from adversely affecting the quality of images. Specify the output terminal whose output is to be inhibited.

- 1 Press **HOME MENU**.
- 2 Select "Option". (**↑/↓** then **ENTER**)
- 3 Select "Monitor Out". (**↑/↓** then **ENTER**)
- 4 Select "INPUT1 Prohibit", "INPUT2 Prohibit", "INPUT3 Prohibit", or "INPUT4 Prohibit". (**↑/↓** then **ENTER**)
- 5 Press **HOME MENU** to exit the menu.

Enjoying through External Equipment

Connecting a recorder

Media Receiver (rear view)



NOTE

- About the MONITOR OUT terminals

The MONITOR OUT terminals cannot output the following signals:

- 1 Video signals input from the COMPONENT VIDEO terminal
- 2 Video signals from a personal computer
- 3 S-Video signals when a conventional TV channel is being received
- 4 S-Video signals when Video signals (INPUT 1, 2, and 4) are being input
- 5 Digital video and audio signals from the HDMI terminals

- When watching images played back on a VCR or DVD recorder connected to the MONITOR OUT terminals, select an input source (e.g., TV channel reception) on the recording equipment other than external input sources. Selecting an external input source may result in distorted images or noise.
- Analog broadcasting signals are not sent to the MONITOR OUT (S-VIDEO) terminal. This is also true of composite signals coming from INPUT 1, 2, or 4.

Connecting other audio equipment

The digital audio output terminal (optical) on this system can output Dolby Digital signals. Using an optical digital cable, connect an AV receiver to the digital audio output terminal (optical) on the rear of the Media Receiver. This allows audio such as digital TV broadcasting to be played in high quality.

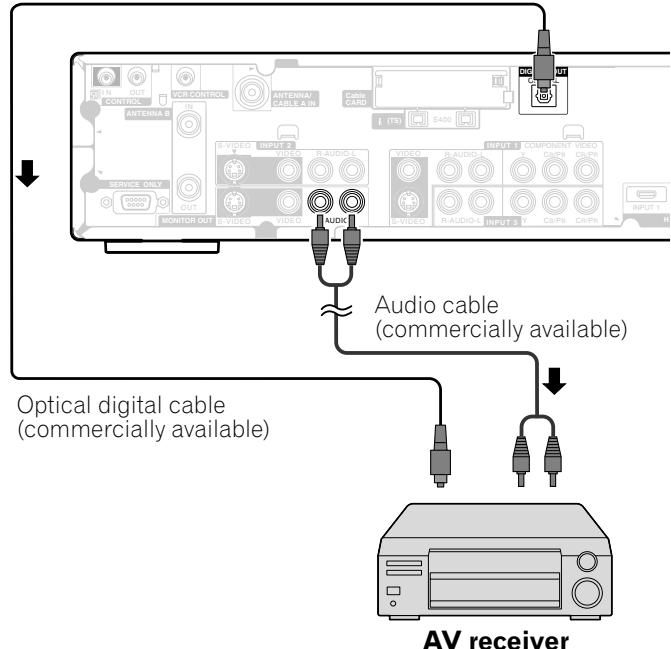
If your AV receiver does not have a digital audio input terminal (optical), connect the MONITOR OUT terminals (AUDIO) on the rear of the Media Receiver to the audio input terminals on the AV receiver.

NOTE

- When using the digital audio output terminal (optical), you need to make settings depending on your AV receiver. For more information, see the instruction manual that came with the AV receiver.

Connecting an AV receiver

Media Receiver (rear view)



Switching the optical audio signal type

Set up for the DIGITAL AUDIO output terminal (OPTICAL), depending on your AV receiver.

- 1 Press **HOME MENU**.
- 2 Select "Option". (\uparrow/\downarrow then **ENTER**)
- 3 Select "Digital Audio Out". (\uparrow/\downarrow then **ENTER**)
- 4 Select "Dolby Digital" or "PCM". (\uparrow/\downarrow then **ENTER**)

Item	Description
PCM (factory default)	Always outputs in the PCM format regardless of the types of signals.
Dolby Digital	For Dolby Digital encoded signals, outputs in the Dolby Digital format. For PCM encoded signals, outputs in the PCM format.

- 5 Press **HOME MENU** to exit the menu.

Watching a D-VHS image

What is i.LINK?

i.LINK is a digital serial interface for handling digital video, digital audio, and other data in two directions. i.LINK is Sony's term for the IEEE 1394 data transport bus. Digital AV equipment compatible with i.LINK can be connected using a single i.LINK cable. The i.LINK interface allows this PDP system to control one of up to two i.LINK compatible devices (in connection) that can be identified.

Which i.LINK devices are connectable?

For i.LINK devices, this system supports only D-VHS recorders. The i.LINK terminals on this system cannot be connected with other equipment such as DVD recorders, digital video cameras, personal computers, and PC peripheral devices because of differences in the specifications.

What can be recorded through i.LINK?

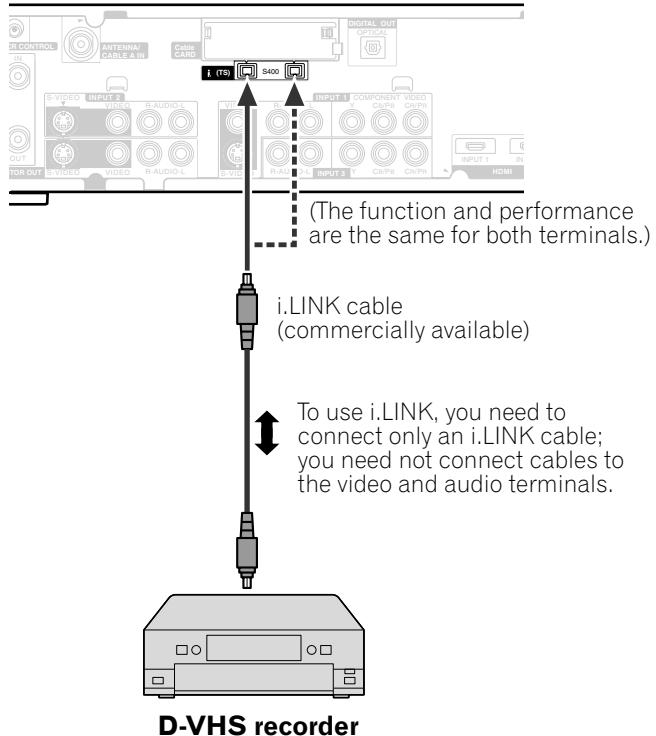
With D-VHS recorders connected to this system through i.LINK, you can record only digital TV programs. You cannot record conventional TV channels nor contents coming from external input sources and personal computers.

Connecting D-VHS recorders

Use the i.LINK terminals when connecting D-VHS recorders.

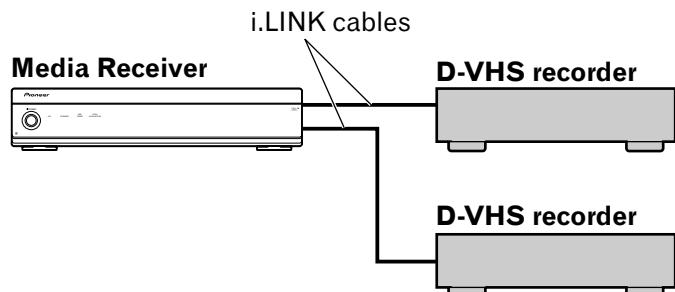
When connecting a single D-VHS recorder

Media Receiver (rear view)



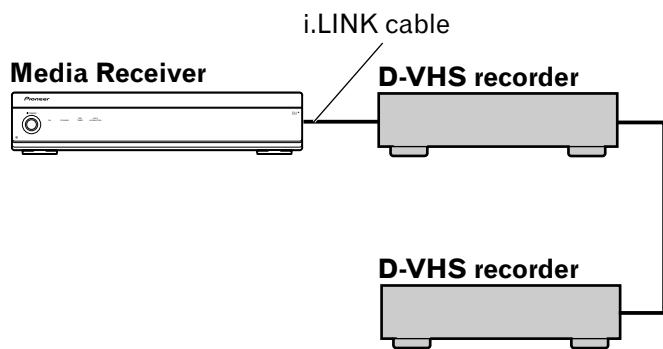
When connecting two D-VHS recorders

You can connect two D-VHS recorders directly to the i.LINK terminals on the rear of the Media Receiver.



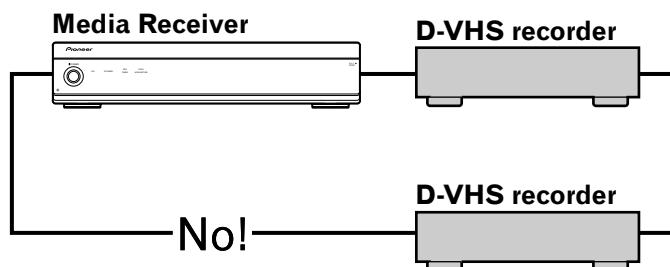
Enjoying through External Equipment

Using i.LINK cables you can also connect up to two D-VHS recorders in a daisy chain.



Precautions about i.LINK connections

- Use S400 i.LINK cables that have 4-pin plugs and are shorter than 3.5 m (11.48 feet).
- Some i.LINK devices cannot relay data when their power is off.
- Do not make the following loop connections:



Displaying a D-VHS image

To watch a D-VHS image, press **i.LINK** on the remote control unit or press **INPUT** on the Plasma Display to select i.LINK.

Useful and important notification

Useful information

- D-VHS recorders connected through i.LINK can play back digital TV programs recorded using this system.
- D-VHS recorders connected through i.LINK can record only digital TV programs. Using i.LINK, those recorders cannot record conventional TV channels nor contents coming from external input sources.
- This system can be simultaneously connected with up to two D-VHS recorders that support i.LINK. You can control one of these D-VHS recorders (basic functions only).
- Some D-VHS recorders connected through i.LINK may not allow this system to control through the control panel screen or to display images and output sound.
- To record digital TV programs using connected D-VHS recorders, use D-VHS tape. You cannot use VHS tape nor S-VHS tape.
- Some D-VHS recorders connected through i.LINK may not allow this system to play back images and sound recorded on VHS tape, S-VHS tape, or (if with analog signals) D-VHS tape. If this is the case, connect the analog output terminals on the D-VHS recorder to INPUT 1, 2, 3, or 4 terminals on this system. See page 50.
- This system supports the Digital Transmission Content Protection (DTCP) technology. The DTCP is a copy protection technology that presents data coding and device authentication.
- i.LINK may not allow copy-restricted video, audio, and other data to be copied from one i.LINK device to another. It also may not allow video, audio, and other data to be transferred with equipment that does not support the DTCP.

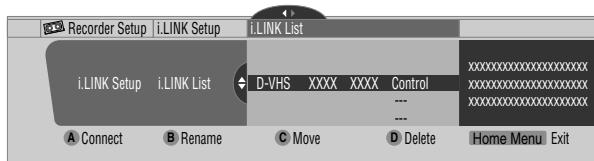
Precautions

- While one D-VHS recorder connected through i.LINK is recording or playing back, do not switch on or off the other connected D-VHS recorder (not in use) or do not connect or disconnect the i.LINK cable from that D-VHS recorder. Doing so can result in image and sound interruption.
- Some D-VHS recorders that support i.LINK cannot relay data when their power is off. Check the instruction manual that came with your D-VHS recorder. This system allows you to change the setting for data relay in the standby mode. See "Setting up for i.LINK standby" on page 57.

Setting up for controlling a D-VHS recorder

You can operate the connected D-VHS recorder from the Plasma Display that shows the control panel screen. After making the connections, use the menu to specify the model of the D-VHS recorder to be operated. You can operate only a single D-VHS recorder from the Plasma Display.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Recorder Setup". (**←/→** then **ENTER**)
- 4 Select "iLINK Setup". (**↑/↓** then **ENTER**)
- 5 Select "iLINK List". (**↑/↓** then **ENTER**)
- 6 Select the D-VHS recorder model to be operated. (**↑/↓** then **ENTER**)



- 7 Press **A** to select "Connect".
- 8 Press **HOME MENU** to exit the menu.

NOTE

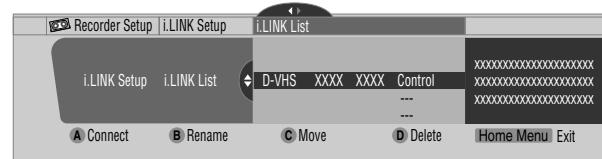
- The following information appears at the right end of the iLINK list to indicate the connection status of the D-VHS recorders:

Control:	Data connection with the D-VHS recorder has been established and the recorder is ready for control.
Link:	The D-VHS recorder has been physically connected, and can be controlled if it is selected for control.
—:	Currently not physically connected
•	When connected to any device other than a D-VHS, the device is not listed in the iLINK List.

Editing the iLINK list

The iLINK list shows all devices connected through iLINK interfaces. In this list, you can change the name or order of devices or delete device information.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Recorder Setup". (**←/→** then **ENTER**)
- 4 Select "iLINK Setup". (**↑/↓** then **ENTER**)
- 5 Select "iLINK List". (**↑/↓** then **ENTER**)
- 6 Select the desired device. (**↑/↓**)



The following procedure differs depending on what you want to perform.

To change the name of a device:

- 7 Press **B** to select "Rename".
- 8 Enter up to 7 characters using **↑/↓**, **←/→**, and **ENTER**.



- 9 Press **A**.

- 10 Press **HOME MENU** to exit the menu.

To change the order of devices:

- 7 Press **C** to select "Move".
- 8 Select the new desired position. (**↑/↓** then **ENTER**)
 - The selected device is moved to the selected position.
- 9 Press **HOME MENU** to exit the menu.

To delete information about a device:

- 7 Press **D** to select "Delete".
 - A confirmation message appears.
 - A warning message appears if the selected device has been preset for recording with the timer or if its power is on. If this is the case, you cannot delete the device that you have selected.
- 8 Press **A** to execute the deletion.
- 9 Press **HOME MENU** to exit the menu.

Enjoying through External Equipment

Setting up for i.LINK standby

Use the following procedure to enable data transfer between multiple i.LINK devices even when the system is in the standby mode.

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Recorder Setup". (**←/→** then **ENTER**)
- 4 Select "i.LINK Setup". (**↑/↓** then **ENTER**)
- 5 Select "i.LINK Standby". (**↑/↓** then **ENTER**)
- 6 Select "Enable". (**↑/↓** then **ENTER**)
- 7 Press **HOME MENU** to exit the menu.

NOTE

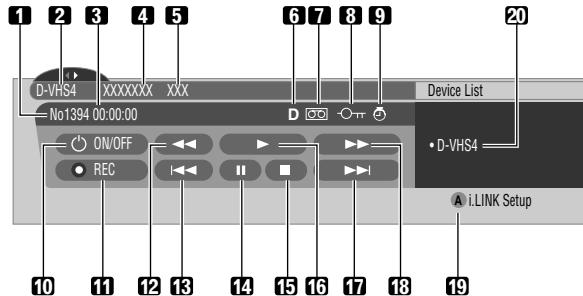
- With "Enable" selected, the system relays data between multiple i.LINK devices even when in the standby mode; the i.LINK circuits are energized in that mode.

In standby mode



Operating the control panel screen

The control panel screen appears when you press **i.LINK**. It disappears when you press **i.LINK** again. To select a button on the control panel screen, press **↑/↓** or **←/→**, and then press **ENTER** on the remote control.



- 1 Shows the current status of the D-VHS recorder.
- 2 Shows the name of the currently selected device.
- 3 Shows counter time output by the D-VHS recorder.
- 4 Shows the manufacture name of the D-VHS recorder to be operated.
- 5 Shows the model name of the D-VHS recorder to be operated.
- 6 Shows the type of inserted video tape; D for D-VHS, S for S-VHS, and no display for VHS.
- 7 Appears when any tape has been inserted.
- 8 Appears when the inserted tape has been write protected. The inserted tape cannot be used for recording when this indicator appears.
- 9 Appears when the D-VHS recorder has been preset for recording and is in the standby mode.
- 10 Switches on and off the D-VHS recorder.
- 11 Starts recording.
- 12 Rewinds to the start of the current program.
- 13 Rewinds the tape.
- 14 Pauses the tape.
- 15 Stops the current tape motion.
- 16 Starts playing back.
- 17 Forwards to the start of the next program.
- 18 Forwards the tape.
- 19 Exits the control panel screen and displays the i.LINK Setup menu.
- 20 Allows you to change the D-VHS recorder to be operated. After pressing this button, press **↑/↓** to select the desired model from the list, and then press **ENTER**.

NOTE

- If no i.LINK device has been connected, "No i.LINK devices are connected." appears. If this is the case, connect i.LINK devices.
- If none of the connected equipment has been supported for control, you cannot execute control.

Watching an image from a personal computer

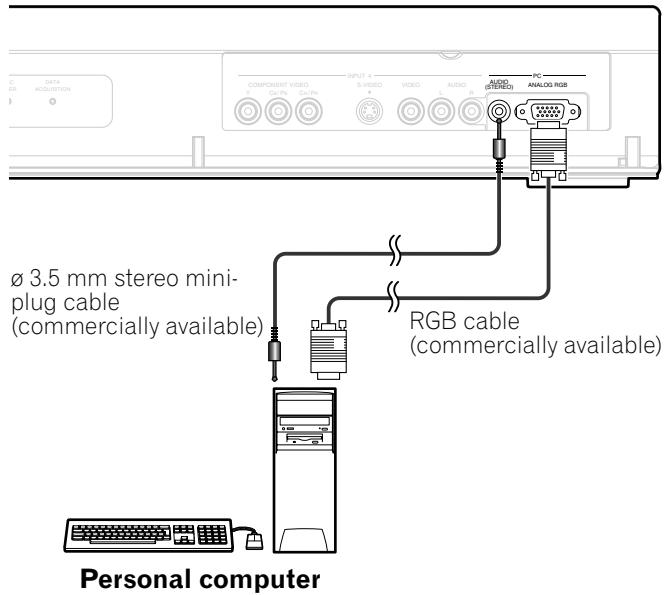
Connecting a personal computer

Use the PC terminals to connect a personal computer.

NOTE

- The PC input terminals are DDC2B-compatible.
- Plug & Play may not correctly function, depending on personal computers in use.

Media Receiver (front view)



Displaying an image from a personal computer

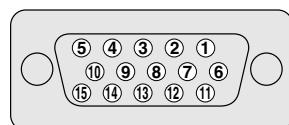
When connecting to a personal computer, the input signal type is automatically identified. If the personal computer image does not come in clearly, you may need to use Auto Setup in the menu. See page 45.

To watch an image coming from the personal computer, press **PC** on the remote control unit or press **INPUT** on the Plasma Display to select "PC".

NOTE

- The PC terminals cannot be used for audiovisual equipment.

Signal names for 15-pin mini D-sub connector



(front view)

Pin No.	Signal name
1	R
2	G
3	B
4	Not connected
5	Not connected
6	GND (ground)
7	GND (ground)
8	GND (ground)
9	+5V
10	GND (ground)
11	Not connected
12	SDA
13	HD
14	VD
15	SCL

NOTE

- A Macintosh adaptor may be required for use with some Macintosh computers.

Computer compatibility chart

Resolution	Frequency	Remarks
720 × 400	70 Hz	
640 × 480	60 Hz	
	65 Hz	Macintosh 13" (67 Hz)
	72 Hz	
	75 Hz	
800 × 600	56 Hz	
	60 Hz	
	72 Hz	
	75 Hz	
832 × 624	74.5 Hz	Macintosh 16"
1024 × 768	60 Hz	
	70 Hz	
	75 Hz	Macintosh 19"
1280 × 768	56 Hz	
	60 Hz	
	70 Hz	

Enjoying through External Equipment

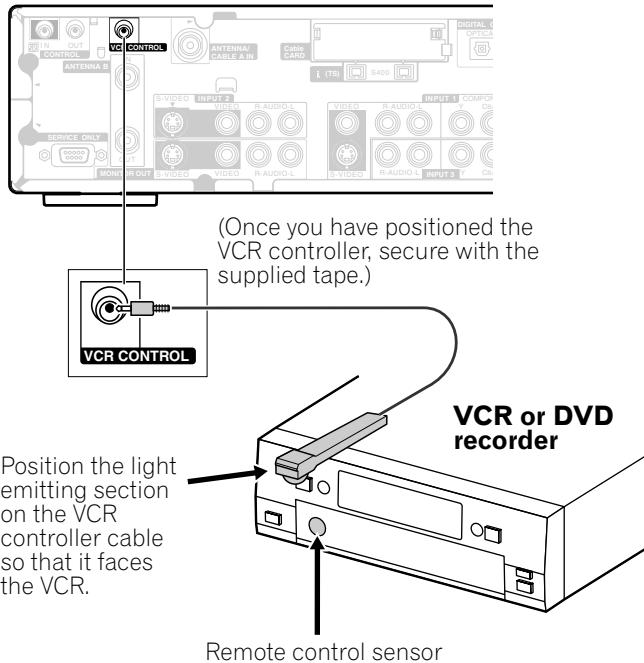
Connecting the VCR controller

Connect the supplied VCR controller to the Media Receiver. This allows you to preset digital TV programs for recording; see page 48. When the specified time comes, the system in the standby mode is automatically switched on and the specified TV program is recorded using the connected VCR or DVD recorder.

NOTE

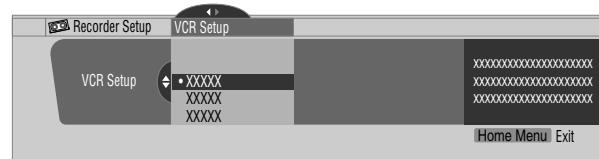
- Make sure to leave the VCR power on when presetting TV programs for recording with the VCR controller.
- Be sure to firmly connect the VCR controller to the VCR control terminal on the rear of the Media Receiver. If you have mistakenly connected it to the CONTROL IN or CONTROL OUT terminal, remote control or other operations may be disabled.

Media Receiver (rear view)



Use the following procedure to set the manufacture of the recording equipment:

- 1 Press **HOME MENU**.
- 2 Select "Tuner Setup". (**↑/↓** then **ENTER**)
- 3 Select "Recorder Setup". (**←/→** then **ENTER**)
- 4 Select "VCR Setup". (**↑/↓** then **ENTER**)
- 5 Select the manufacture of the recording equipment. (**↑/↓** then **ENTER**)



- The screen for recording test appears.

- 6 Check that the power to the recording equipment is on, and insert tape into the slot.
 - Insert tape you think it all right to erase its contents. The contents will be erased because Rec and Stop codes are output in the test.
 - Check that the light emitting section on the VCR controller cable faces the recording equipment.
- 7 Press **A** to execute recording test.
 - If the recording equipment fails to start and stop recording, check and change the specified recording equipment manufacture.
- 8 Press **A** to select "Yes, Store Setting".
- 9 Press **HOME MENU** to exit the menu.

NOTE

- Even if you correctly specify the manufacture of the recording equipment, control of some models may be disabled.
- Perform the recording test when the recording equipment is not in recording standby or is not recording.
- The recording test takes approximately 10 seconds.
- The PIONEER has been set as the factory default.

The lists of controllable recording equipment manufactures

Manufacture	Manufacture	Manufacture	Manufacture
Admiral	Harley Davidson	Philco	Toshiba
Advantz	Harman/Kardon	Philips	Totlevision
Adventura	Harwood	Pilot	Unitech
Aiko	Headquarter	Pioneer	Vector
Aiwa	Hitachi	Portland	Vector Research
Akai	JVC	Profitronic	Video Concepts
American High	Jensen	Proscan	Videosonic
Asha	KEC	Protec	Wards
Audiovox	KLH	Pulsar	White Westinghouse
Beaumark	Kenwood	Quarter	XR-1000
Bell & Howell	Kodak	Quartz	Yamaha
Broksonic	LXI	Quasar	Zenith
CCE	Lloyd's	RCA	
Calix	Logik	Radio Shack	Some modes of the listed
Canon	MEI	Radix	manufactures may not allow
Capehart	MGA	Randex	control through the VCR
Carver	MGN Technology	Realistic	controller.
Cineral	MTC	Ricoh	
Citizen	Magnasonic	Runco	
Colt	Magnavox	STS	
Craig	Magnin	Salora	
Curtis Mathes	Marantz	Samsung	
Cybernex	Marta	Sankyo	
Daewoo	Matsushita	Sansui	
Daytron	Memorex	Sanyo	
Denon	Minolta	Scott	
Dynatech	Mitsubishi	Sears	
Electrohome	Motorola	Semp	
Electrophonic	Multitech	Sharp	
Emerex	NAD	Shintom	
Emerson	NEC	Shogun	
Fisher	Nikko	Singer	
Fuji	Nikon	Sony	
Funai	Noblex	Sylvania	
GE	Olympus	Symphonic	
Garrard	Optimus	TMK	
Go Video	Optonica	Tatung	
GoldStar	Orion	Teac	
Gradiente	Panasonic	Technics	
Grundig	Penney	Teknika	
Hi-Q	Pentax	Thomas	

Enjoying through External Equipment

Connecting control cords

Connect control cords between the Media Receiver and other PIONEER equipment having the **SR** logo. You can then operate the connected equipment by sending commands from its remote control unit to the remote control sensor on the Media Receiver.

After the CONTROL IN terminals have been connected, the remote control sensors on the connected equipment do not accept commands from the remote control units. Face the remote control units to the remote control sensor on the Plasma Display when operating the connected equipment.

NOTE

- Make sure that the power is turned off when making connections.
- Complete all component connections before making control cord connections.

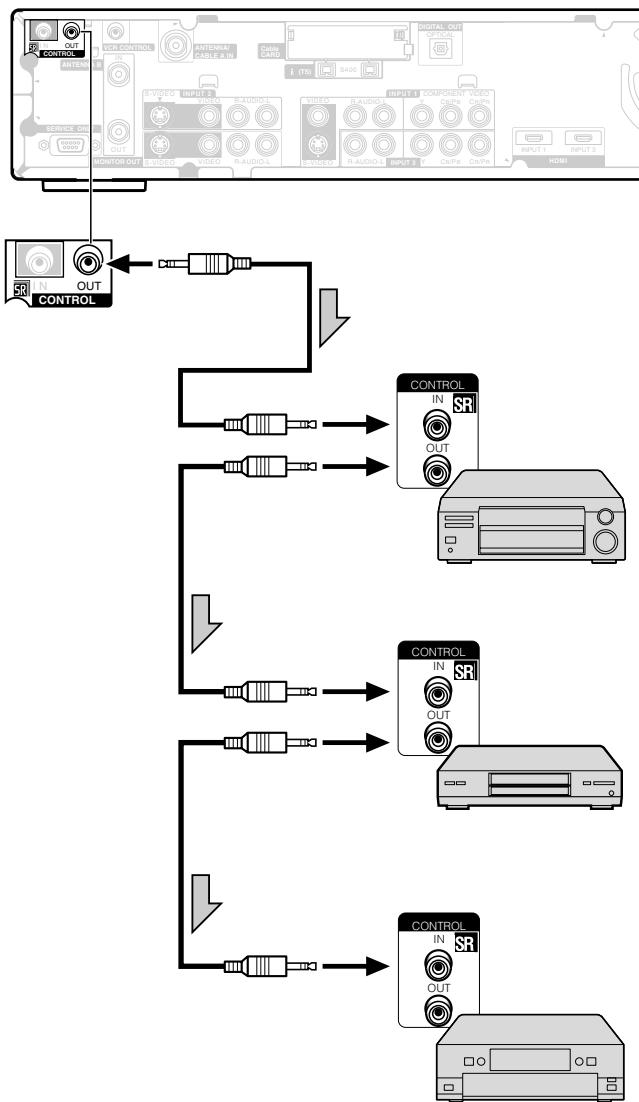
About SR+

The CONTROL OUT terminal on the rear of the Media Receiver supports **SR+** that allows linked operations with a PIONEER AV receiver. **SR+** presents functions such as the input switch linkage operation function and the DSP surround mode display function. For more information, see the instruction manual that came with the PIONEER AV receiver supporting **SR+**.

NOTE

- While in connection through **SR+**, the volume on this system is temporarily minimized.

Media Receiver (rear view)

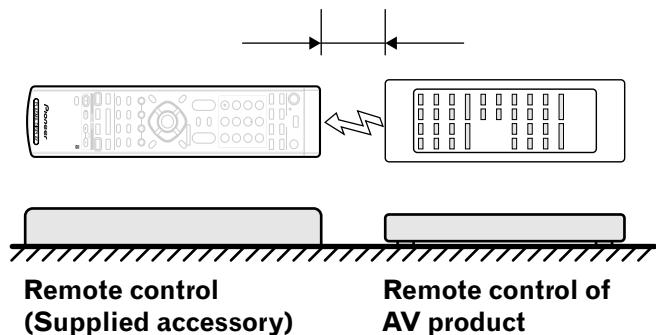


The control cables (commercially available) are mono sound cables with mini plugs (no resistance).

Learning function of the remote control unit

You can operate the connected AV products (AV Receiver, Cable Box, SAT tuner, VCR, DVD, DVD recorder, LD) using the learning function of your remote control unit. This remote control unit has a function that can memorize each remote control code.

2 to 5 cm (0.8 to 2.0 inches)



Presetting manufacture codes

- 1 Slide the **Mode switch** to match the device to which you want to preset the remote control signal.
- 2 Press **EDIT/LEARN** and **1** at the same time.
 - The LED flashes.
- 3 Press **0 – 9** to enter the manufacture code. See page 63.
 - Preset mode is finished once the LED no longer lights up.

NOTE

- To exit the Edit mode halfway, press **EDIT/LEARN** again.
- If the **Mode switch** selection is changed when in the Edit mode, the Edit mode is cancelled.
- If no operation is performed for more than one minute, the Edit mode is cancelled.
- When you enter a code not listed, the LED flashes quickly.
- If the table on page 63 does not include your desired manufacturer or the remote control does not work, you can make the memory learn its signal by the Learn mode.
- The initial mode is “000” (PIONEER).

Using the learning function

- 1 Slide the **Mode switch** to match the device whose remote control signal you want to be learned.
- 2 Press **EDIT/LEARN** and **2** at the same time.
 - The LED flashes.
- 3 Press a button to be learned.
 - The LED lights up.
 - For the functions that can be learned, see pages 64 to 68.
 - When learning is finished, the LED starts flashing again.
- 4 Press **EDIT/LEARN** again to exit the Learn mode.

NOTE

- To exit the Learn mode halfway, press **EDIT/LEARN** again.
- If the **Mode switch** selection is changed when in the Learn mode, the Learn mode is cancelled.
- If no operation is performed for more than one minute, the Learn mode is cancelled.
- It takes about 2 seconds to finish code transmission. Do not interrupt it halfway. Wait until the LED flashes again.
- You can reset all learned codes to the factory defaults. When not in the Learn mode, press and hold **TV** , and then press  and **VOL +** (RECEIVER section) at the same time.

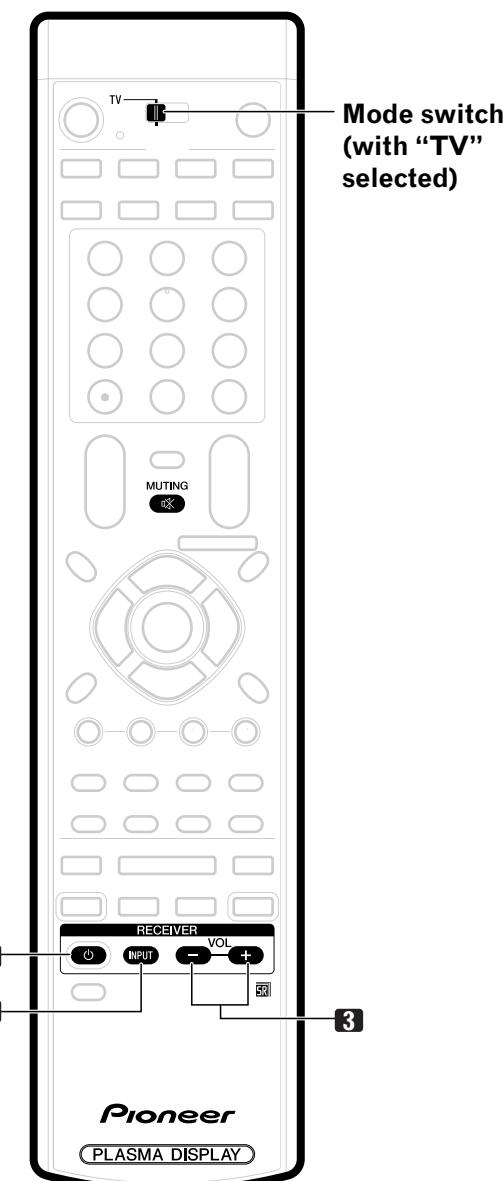
Useful Remote Control Features

Manufacture codes

CABLE/SAT	VCR	DVD/DVR
000	PIONEER1(CABLE)	PIONEER
001	PIONEER2(CABLE)	FISHER
002	JERROLD1(CABLE)	FISHER2
003	JERROLD2(CABLE)	FISHER3
004	JERROLD3(CABLE)	GOLDSTAR
005	JERROLD4(CABLE)	HITACHI
006	JERROLD5(CABLE)	HITACHI2
007	JERROLD6(CABLE)	HITACHI3
008	JERROLD7(CABLE)	MAGNAVOX2
009	JERROLD8(CABLE)	MITSUBISHI
010	JERROLD9(CABLE)	MITSUBISHI2
011	JERROLD10(CABLE)	MITSUBISHI3
012	S.A.1(CABLE)	MITSUBISHI4
013	S.A.2(CABLE)	MITSUBISHI5
014	S.A.3(CABLE)	MITSUBISHI6
015	S.A.4(CABLE)	PANASONIC
016	ZENITH1(CABLE)	PANASONIC2
017	ZENITH2(CABLE)	PANASONIC3
018	ZENITH3(CABLE)	RCA
019		RCA2
020	PIONEER(SAT)	RCA3
021	RCA1(SAT)	SANYO
022	RCA2(SAT)	SANYO2
023	SONY(SAT)	SANYO3
024		SHARP
025		SHARP2
026		SHARP3
027	SONY(BETA)	SONY(LD)
028	SONY(VHS)	
029	SONY(8mm)	
030		TOSHIBA
031		JVC
032		JVC2
033		JVC3
034		JVC4
035		JVC5
036		ZENITH
037		MITSUBISHI(J-3)
038		SHARP(J-2)
039		PANASONIC(J-3)
040		TOSHIBA(J-3)
041		GRANDIENTE
042		AKAI
043		PIONEER2
044		SANYO4
045		MATSUI
046		AIWA
047		ALBA81
048		BUSH
049		THOMSON
050		BAIRD
051		TELEFUNKEN
052		ALBA

CABLE/SAT	VCR	DVD/DVR
053		Grundig1
054		Grundig2
055		Grundig3
056		SONY2
057		SONY3
058		SONY4
059		RCA4
060		PHILIPS
061		PHILIPS2
062		PHILIPS3
063		PHILIPS4
064		PHILIPS5
065		PHILIPS6
066		SAMSUNG
067		SAMSUNG2
068		SAMSUNG3
069		SAMSUNG4
070		SAMSUNG5
071		SAMSUNG6
072		MARANTZ
073		MARANTZ2
074		GE
075		GE2
076		GE3
077		YAMAHA
078		YAMAHA2
079		YAMAHA3
080		YAMAHA4
081		CURTIS_MATHIS
082		CURTIS_MATHIS2
083		CURTIS_MATHIS3
084		FUNAI
085		ADMIRAL
086		KENWOOD
087		KENWOOD2
088		KENWOOD3
089		NEC
090		NEC2
091		NEC3
092		NEC4
093		WARDS
094		WARDS2
095		WARDS3
096		WARDS4
097		MEMOREX
098		MEMOREX2
099		JC_PENNY
100		JC_PENNY2
101		JC_PENNY3
102		JC_PENNY4
103		JC_PENNY5
104		JC_PENNY6

Using the remote control unit to control other devices



Receiver control buttons

When a Pioneer receiver is connected to the display, the receiver can be operated using buttons 1 to 3.

When a non-Pioneer receiver is connected to the display, the signals for 1 to 3 must first be learned before operating. See page 62.

1 RECEIVER (STANDBY/ON)

Turns the receiver power on and off.

2 RECEIVER INPUT

Selects the input source connected to the receiver.

3 RECEIVER VOL +/−

Adjusts the receiver volume level. Press **VOL +** to increase the volume and **VOL −** to decrease it.

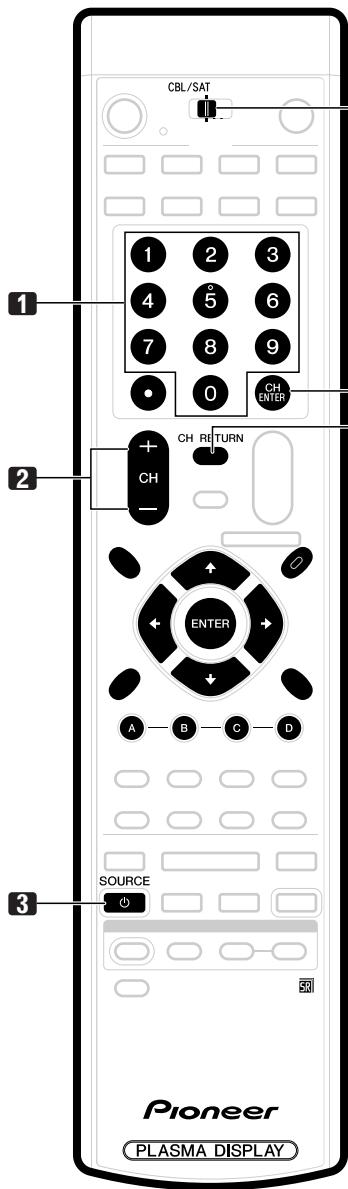
NOTE

• (RECEIVER) MUTING

Allows the remote control unit to learn receiver's mute signal. Use this button when the mode switch is set to a position other than TV.

- The color-highlighted buttons on the remote control can learn the control signal from another device's remote control.

Useful Remote Control Features



**Mode switch
(with "CBL/SAT"
selected)**

Cable control buttons

When the **Mode switch** is set to CBL/SAT, the cable converter connected to the display can be operated using **1** to **5**.

Cable converters made by other manufacturers and not preset can also be operated using the remote control unit if **1** to **5** have learned the functions. See page 62.

1 0 – 9

Press a button (or buttons) that corresponds to the channel that you want to watch.

2 CH +/–

Press **CH +** or **CH –** to tune in a higher or lower channel.

3 SOURCE

Turns the cable converter power on and off.

4 CH ENTER *

Fix the selected channel with the direct channel selection buttons.

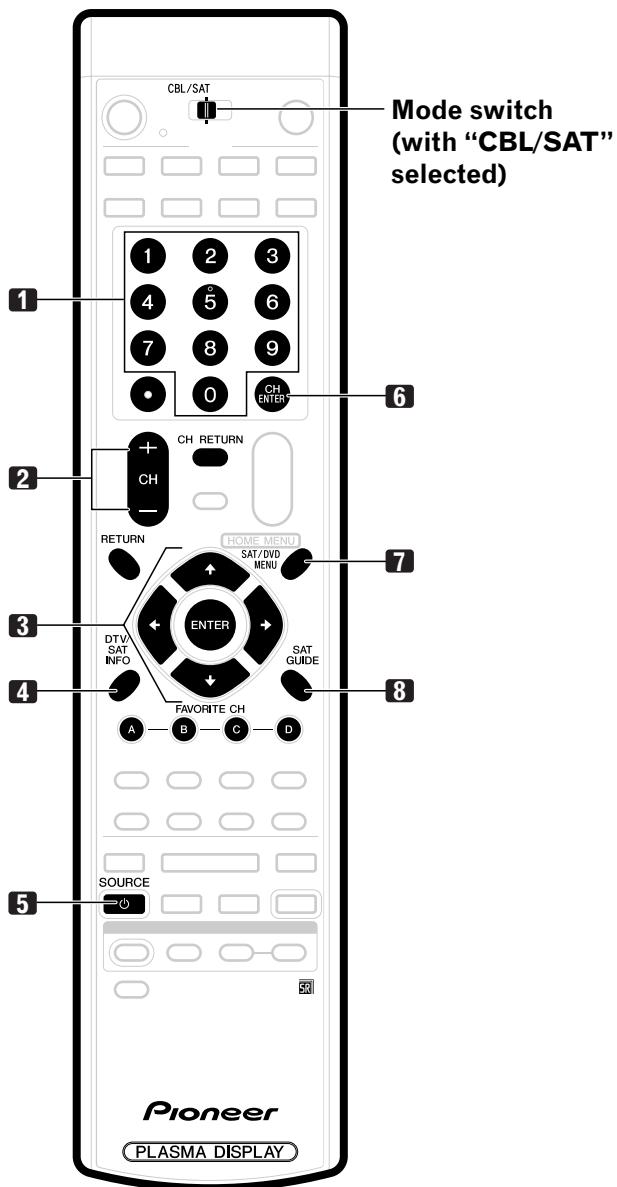
5 CH RETURN *

Press to switch between the current channel and the channel you were watching immediately before.

* Some manufacturers do not preset **CH ENTER** and **CH RETURN**. Use these buttons to learn if necessary.

NOTE

- CABLE and SAT cannot be selected at the same time.
- The color-highlighted buttons on the remote control can learn the control signal from another device's remote control.



**Mode switch
(with "CBL/SAT"
selected)**

SAT control buttons

When the SAT is preset by the learning function of the remote control, the remote control unit buttons will function as shown below.

- When the **Mode switch** is set to CBL/SAT, satellite broadcast tuners made by other manufacturers and not preset can also be operated with the remote control unit if 1 to 8 have learned the functions. See page 62.

1 0 – 9

Press a button (or buttons) that corresponds to the channel that you wish to watch.

2 CH +/–

Press **CH +** or **CH –** to tune in a higher or lower channel.

3 ENTER, $\uparrow/\downarrow/\leftarrow/\rightarrow$

ENTER: Press to activate the selected function.

$\uparrow/\downarrow/\leftarrow/\rightarrow$: Press the button to select items on the SAT GUIDE screen or SAT MENU screen.

4 SAT INFO

When this button is pressed, information on satellite broadcasting will appear.

- Use this button to learn if necessary.

5 SOURCE

Turns the Satellite broadcast tuner power on and off.

6 CH ENTER

Fix the selected channel with the direct channel selection buttons.

- Use this button to learn if necessary.

7 SAT MENU

When this button is pressed, the satellite broadcasting menu screen will appear.

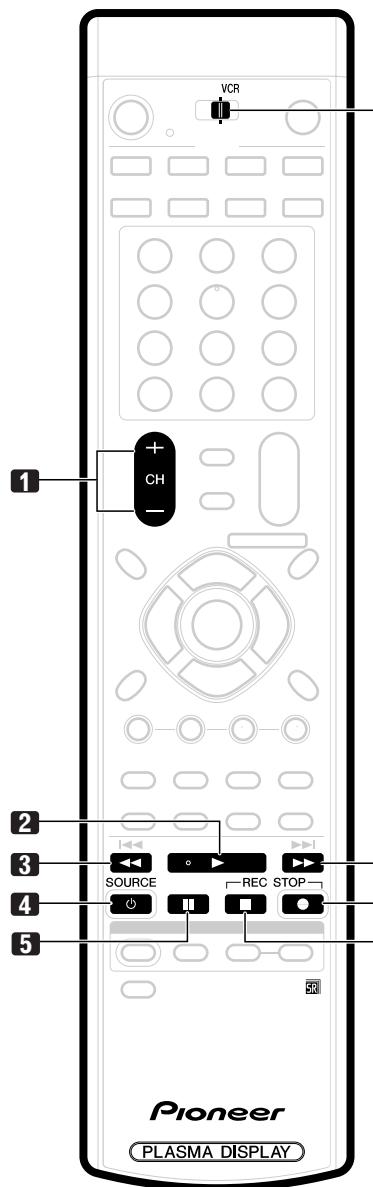
8 SAT GUIDE

When this button is pressed, the satellite broadcasting guide screen will appear.

NOTE

- CABLE and SAT cannot be selected at the same time.
- The color-highlighted buttons on the remote control can learn the control signal from another device's remote control.

Useful Remote Control Features



**Mode switch
(with "VCR"
selected)**

VCR control buttons

When the VCR is preset by the learning function of the remote control, the remote control unit buttons will function as follows when the **Mode switch** of the remote control unit is set to VCR.

- When the input selector button having the same number as the input terminal connecting the VCR is pressed, the VCR can be operated using 1 to 8.
- VCR made by other manufacturers and not preset can also be operated using the remote control unit if 1 to 8 have learned the functions. See page 62.

1 CH +/–

Press to select the channel of the TV tuner on the VCR.

2 ▶ (PLAY)

Selects playback.

3 ◀◀ (REW)

Rewinds the tape and allows picture search.

4 SOURCE

Turns the power of the VCR on and off.

5 ■ (PAUSE/STILL)

Sets pauses and still pictures.

6 ▶▶ (FF)

Rapidly advances the tape and allows picture search.

7 ● (REC)

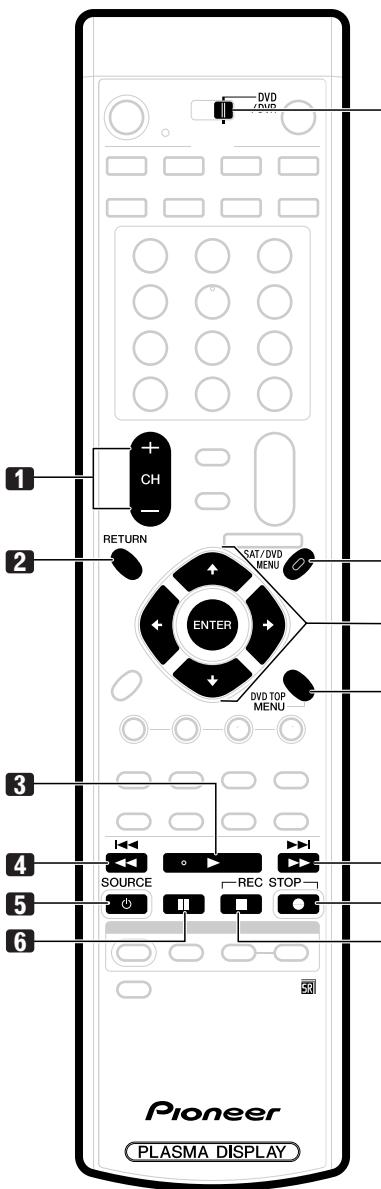
Starts recording.

8 ■ (STOP)

Stop tape transport.

NOTE

- The color-highlighted buttons on the remote control can learn the control signal from another device's remote control.



**Mode switch
(with "DVD/
DVR" selected)**

1 CH +/− (DVD recorder only)

Press to change the channel of the tuner built in the DVD recorder.

2 RETURN

When the DVD menu is in display, press to restore the immediately previous screen.

3 ► (PLAY)

Selects playback.

4 ◀◀ (SCAN)/◀◀ (CHAPTER SEARCH)

Continue pressing to go backward.

Pressing quickly once takes you to the start of the chapter currently playing. Each time you press it, you move back to the start of the previous chapter.

5 SOURCE

Turns the power of the DVD player or DVD recorder on and off.

6 ■ (PAUSE/STILL)

Sets pauses and still pictures.

7 SAT/DVD MENU (DVD, DVD recorder)

When this button is pressed, the DVD menu will appear.

8 ENTER, ▲/▼/◀/▶ (DVD, DVD recorder)

ENTER: Press to activate the selected function.

▲/▼/◀/▶: Press the button to select items on the DVD MENU screen.

9 DVD TOP MENU (DVD, DVD recorder)

When this button is pressed, the DVD top menu will appear.

10 ►► (SCAN)/►►I (CHAPTER SEARCH)

Continue pressing for fast forward.

Pressing quickly once takes you to the start of the next chapter. Each time you press it, you move ahead to the start of the next chapter.

11 ● (REC)

Starts recording.

12 ■ (STOP)

Playback stops when pressing once.

With some DVD players or DVD recorders, pressing the button twice may open the disc tray.

11, 12 REC STOP

Press and hold ●, and then press this button to stop recording. This operation is true of only Pioneer DVD recorders.

 **NOTE**

- The DVD player or DVD recorder cannot be selected at the same time.

- The color-highlighted buttons on the remote control can learn the control signal from another device's remote control.

DVD/DVR control buttons

When the DVD/DVR is preset by the learning function of the remote control, the remote control unit buttons will function as follows when the **Mode switch** of the remote control unit is set to DVD/DVR.

- When the input selector button having the same number as the input terminal connecting a DVD player or DVD recorder is pressed, these players can be operated using **1** to **12**.
- DVD players or DVD recorders made by other manufacturers and not preset can also be operated using the remote control unit if **1** to **12** have learned the functions. See page 62.

Appendix

Troubleshooting

Problem	Possible Solution
• No power.	<ul style="list-style-type: none"> • Make sure the Plasma Display and the Media Receiver are connected correctly. (See page 18.) • Is the power cord disconnected? (See page 23.) • Has the main power been turned on? (See page 24.) • Check if you pressed TV  on the remote control unit. (See page 24.) • If the indicator on the system lights up red, press TV .
• Green and red rectangles appear on the screen alternately.	• Check if the system cable has been disconnected or almost disconnected? (See page 18.)
• The system cannot be operated.	<ul style="list-style-type: none"> • External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the system after first turning the power of the Plasma Display and the Media Receiver, or unplugging the power cord and re-plugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	<ul style="list-style-type: none"> • Is the Mode switch set correctly? Slide it to the TV setting position. (See page 14.) • Are batteries inserted with polarity (+, -) aligned? (See page 20.) • Are batteries worn out? (Replace with new batteries.) (See page 20.) • Operate the remote control unit while pointing it toward the remote control sensor on the Plasma Display. (See page 20.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminated near the remote control sensor?
• No image and audio is presented.	<ul style="list-style-type: none"> • Check if the input source for video or PC has been unintentionally selected although you want to watch a TV channel. (See page 25.) • Check if you have activated the Parental Control function. (See page 33.) • Enter a password to temporarily cancel the Parental Control function. (See page 37.)
• No picture.	<ul style="list-style-type: none"> • Is connection to other components correct? (See pages 50 to 58.) • Is a non-compatible PC signal being input? (See page 58.) • Is picture adjustment correct? (See page 41.)
• Audio is output but no image is presented.	• Check if you have selected "Picture Off" for Energy Save. With this option selected, the screen is deactivated; only audio is output. To restore the screen display, press any button other than VOL +/- and MUTING . (See page 44.)
• Images are presented but no audio is output.	<ul style="list-style-type: none"> • Check if you have selected the minimum volume. (See page 26.) • Check if you have muted sound. (See page 26.) • When using a video or PC input source, check that the audio terminal is also in connection. (See pages 50 to 54 and 58.)
• Sound is reversed between the right and left.	• Check if the speaker cable connections have been reversed between the right and left or if the speaker cable from either speaker has been disconnected. (See pages 12 and 18.)
• Sound is output from only a single speaker.	• Has the balance been correctly adjusted? (See page 43.)
• Picture is cut off.	<ul style="list-style-type: none"> • Is the image position correct? (See page 45.) • Has the correct screen size been selected? (See page 46.)
• Strange color, light color, dark or color misalignment.	<ul style="list-style-type: none"> • Adjust the picture tone. (See page 41.) • Is the room too bright? The picture may look dark in a room that is too bright.
• Power is suddenly turned off.	<ul style="list-style-type: none"> • Is the sleep timer set? (See page 40.) • Check the power control setting. (See page 44.) • The system's internal temperature has increased. Remove any objects blocking vent or clean. (See pages 15 and 16.)
• Panel sounds / noises	• Panel generated sounds, examples: Fan motor noise, Electrical Circuit Humming / Glass Panel buzzing are normal operation of a phosphor-based matrix display.

Code	Message	Check
SD04	Powering off. Internal temperature too high. Check temperature around PDP.	Check if the ambient temperature of the Plasma Display is high.
SD05	Powering off. Internal protection circuits activated, Is there a short in speaker cable?	Check the speaker cable connections between the Plasma Display and the speakers.
SD11	Powering off. Internal temperature too high. Check temperature around media receiver.	Check if the ambient temperature of the Media Receiver is high.

The video program that you watch may be high definition (HD) or standard definition (SD). This Plasma Display is designed to scale to each type of definition properly. If the video program's definition type changes while a menu window is displayed on the screen (for example: HD→SD or SD→HD), the menu size may temporarily shrink or enlarge until the scaling is completed. This may happen, for example, when you switch between television and an external digital video recorder (D-VHS), or when your recorded program switches between different definition types, while the on-screen menu is being shown.

If this happens, the menu will return to its normal size after two to three seconds. This action is normal, and does not indicate a problem with your Plasma Display system.

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That's all there is to it!

Appendix

Specifications

Item	50"Plasma Display, Model: PRO-505PU	43" Plasma Display, Model: PRO-435PU
Number of Pixels	1280 × 768 pixels	1024 × 768 pixels
Audio Amplifier	13 W + 13 W (1 kHz, 10 %, 8 Ω)	13 W + 13 W (1 kHz, 10 %, 8 Ω)
Surround System	SRS/FOCUS/TruBass	SRS/FOCUS/TruBass
Power Requirement	120 V AC, 60 Hz, 363 W (0.2 W Standby)	120 V AC, 60 Hz, 298 W (0.2 W Standby)
Dimensions	1270 (W) × 737 (H) × 93 (D) mm (50 (W) × 29 (H) × 3 $\frac{11}{16}$ (D) inches)	1120 (W) × 652 (H) × 93 (D) mm (44 $\frac{1}{8}$ (W) × 25 $\frac{11}{16}$ (H) × 3 $\frac{11}{16}$ (D) inches)
Weight	32.8 kg (72.3 lbs.)	26.8 kg (59.1 lbs.)

Item	Media Receiver, Model: PRO-R05U		
Reception System (Digital)	ATSC Digital TV system		
Circuit type	8VSB/64QAM/256QAM/QPSK demodulation		
Tuner	VHF/UHF	VHF 2–13ch, UHF 14–69ch	
	CATV	2–135ch	
Audio format	Dolby Digital		
Reception System (Analog)	American TV standard NTSC system		
Circuit type	Video signal detection PLL full synchronous detection, PLL digital synthesizer system		
Tuner	VHF/UHF	VHF 2–13ch, UHF 14–69ch	
	CATV	ANTENNA/CABLE A IN: 1–135ch	Cable: 1–125ch
Audio multiplex	BTSC system		
Terminals	Rear	ANTENNA/CABLE A IN	75 Ω UNBAL, F Type for DTV/VHF/UHF/CATV in
		ANTENNA B	75 Ω UNBAL, F Type for VHF/UHF/CATV in Loop out
		iLINK (TS)	S400 (2)
		INPUT 1	COMPONENT VIDEO in, S-VIDEO in, VIDEO in, AUDIO in, HDMI in
		INPUT 2	S-VIDEO in, VIDEO in, AUDIO in
		INPUT 3	COMPONENT VIDEO in, AUDIO in, HDMI in
		Monitor Out	S-VIDEO out, VIDEO out, AUDIO out
		Digital Audio Output	Optical (1)
		VCR Control Output	1
		CONTROL IN	1
		CONTROL OUT	1
		Cable CARD	Point of Deployment
	Front	INPUT 4	COMPONENT VIDEO in, S-VIDEO in, VIDEO in, AUDIO in
		PC	Analog RGB in, AUDIO in
OSD	English/French/Spanish		
Power Requirement	120 V AC, 60 Hz, 43.3 W (31 W Standby)		
Dimensions	420 (W) × 90 (H) × 295 (D) mm (16 $\frac{9}{16}$ (W) × 3 $\frac{9}{16}$ (H) × 11 $\frac{10}{16}$ (D) inches)		
Weight	5.8 kg (12.8 lbs.)		

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